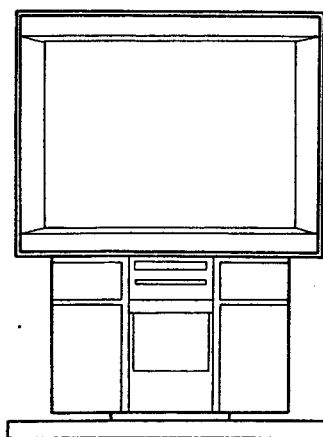


KV-29XBR85

RM-Y108

SERVICE MANUAL



US Model
Chassis No. SCC-E28F-A
Canadian Model
Chassis No. SCC-E35F-A

ANU-1A CHASSIS

MODELS OF THE SAME SERIES	
KV-29XBR85	
ANU-1A CHASSIS	
KV-32XBR75	

SPECIFICATIONS

Television system	American TV standards	Output	MONITOR OUTPUT S VIDEO OUTPUT (4-pin mini DIN) Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal) 75-ohms Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative Audio (phono jacks): 500 mVrms (100% modulation) Impedance: 10 kilohms AUDIO OUTPUT (VARIABLE) (phono jacks) More than 408 mVrms at the maximum volume setting (variable) Impedance: 5 kilohms
Channel coverage	VHF: 2 - 13 UHF: 14 - 69 Cable TV: 1 - 125		
Picture tube	Microblack Trinitron tube 32-inch picture measured diagonally 34-inch picture tube measured di- agonally		
Antenna	75-ohm external antenna terminal for VHF/UHF		
Input	VIDEO 1, 2 and 3 IN S VIDEO IN (4-pin mini DIN) Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal) 75-ohms Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative Audio (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms	Speaker output Speaker size	Main speakers 14W x 2: 8-ohm minimum Super woofer 40W: 8-ohm minimum Full range Main 87mm x 2 (3 1/2" INC) Woofer 100mm x 1 (4" INC)



TRINITRON® COLOR TV
SONY®

KV-29ABK85
RM-Y108

Audio frequency response	Main 100Hz – 20kHz Woofer 20Hz – 100Hz
Power requirements	120V AC, 60Hz
Power consumption	360W (Max.) 2W (Standby)
Dimensions (w/h/d)	Approx. 769 × 1132.5 × 736 mm (30 $\frac{3}{8}$ × 44 $\frac{5}{8}$ × 29 inches)
Weight	Approx. 112.8kg(248lb 11oz)

Accessories supplied

YES: supplied NO: not supplied

Programmable Commander	RM-Y108 with 2 size AA (R6) batteries (1)
Mini Commander	YES
Speakers and speaker cords	Main speakers (2) Super woofer (1) Speaker cords (2) and screws (4) for main speakers
Antenna connector (1)	YES

Programmable Commander	RM-Y108 with 2 size AA (R6) batteries (1)
Mini Commander	NO
Speakers and speaker cords	NO
Antenna connector (1)	YES

Optional accessories


U/V mixer EAC-66
Connecting cable
VMC-810/820S
YC-15V/30V
Video rack
SU-251 (black)
SU-330 (black)

Design and specifications are subject to change without notice.

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!


LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

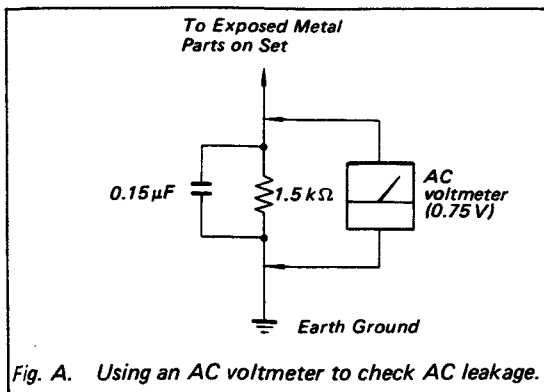
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SAFETY CHECK-OUT (US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



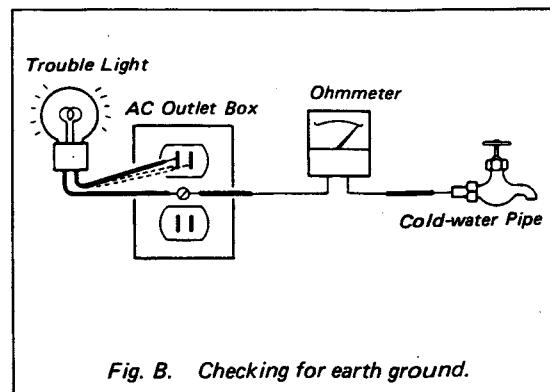
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

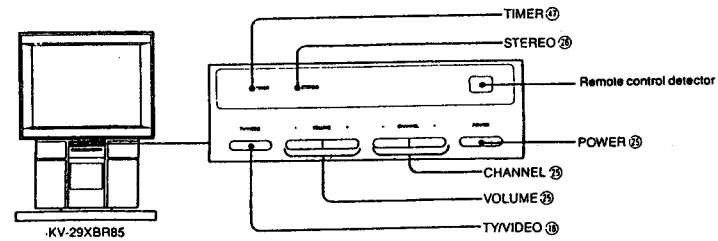
HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

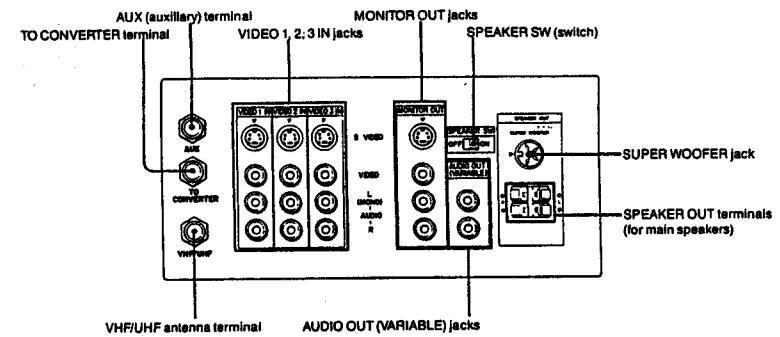


SECTION 1 GENERAL

1-1. NAMES OF THE PARTS

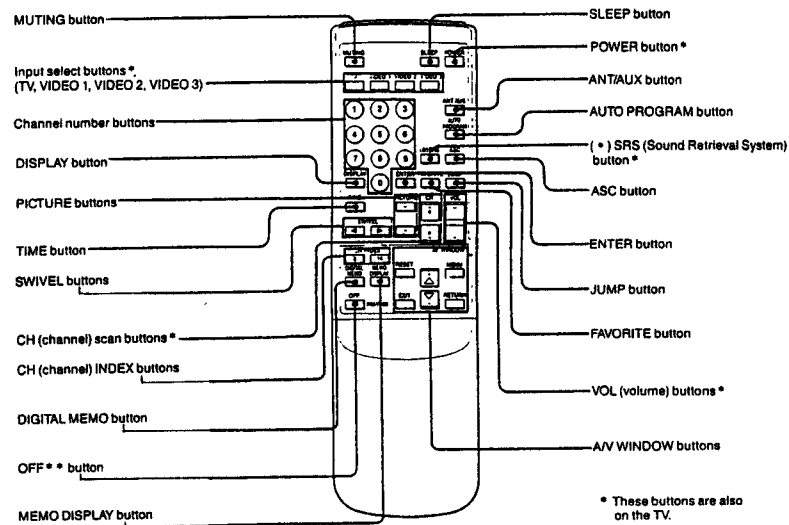


Rear



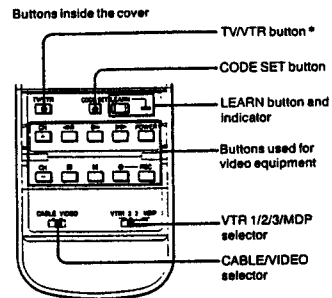
1-2. PRESET TV CHANNELS

Programmable Remote Commander

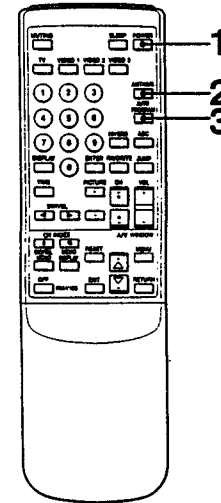
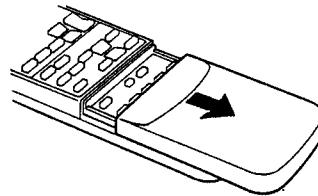


* These buttons are also on the TV.

** This button has the same function as OFF inside the cover.



To use the buttons inside the cover
Slide down the cover.



To Preset All Receivable Channels Automatically

Only with pressing a button, on can preset all receivable channels automatically.

1 Press POWER on the TV or the Remote Commander to turn the TV on.



2 Press ANTAUX according to the channel to be preset.



3
To preset VHF, UHF or regular cable TV channels

AUX 3
To preset pay cable TV channels

3 Press AUTO PROGRAM.



"AUTO PROGRAM" is displayed on the screen and receivable channels (other than the channels already preset) will be preset in numerical sequence. The channels previously preset remain in the unit's memory. When no more channels can be found, the programming stops and the lowest numbered channel is displayed.



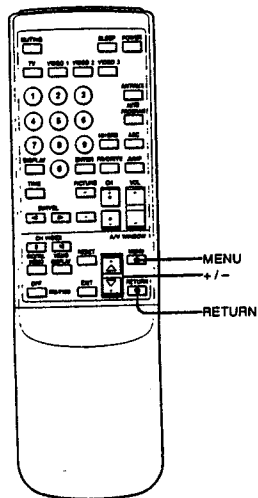
Receivable channels of this TV are:

VHF: 2-13
UHF: 14-69
Cable: 1-125

To check preset channels
Press CH +/-.

If the indication "VIDEO 1, VIDEO 2, VIDEO 3, S VIDEO, LD, or VTR" is displayed on the screen
Press the TV/VIDEO button on the TV or the TV button on the Remote Commander so that a channel number appears.

Without presetting
You can watch TV channels by using the 0-9 buttons and ENTER.



To Turn the Cable Mode Off (or On)

If you have cable connected to your TV, follow the steps below to turn the cable connection off or on. Turn cable OFF when you want to preset or watch VHF or UHF channels, and turn cable ON to preset or watch cable TV channels.

1 Press MENU.



A/V WINDOW

►VIDEO
AUDIO
GUIDE
SET UP
Use[Δ ▽]&[RETURN]
[EXIT] to quit.

2 Press +/- until ► points to "SET UP".



A/V WINDOW

VIDEO
AUDIO
GUIDE
►SET UP
Use[Δ ▽]&[RETURN]
[EXIT] to quit.

3 Press RETURN.



SET UP

►TIME SET
VIDEO LABEL
CHANNEL CAPTION
CHANNEL ERASE
CHANNEL ADD
CABLE: ON

4 Press +/- until ► points to "CABLE".



SET UP

TIME SET
VIDEO LABEL
VIDEO LABEL
CHANNEL CAPTION
CHANNEL ERASE
CHANNEL ADD
►CABLE: ON

5 Press RETURN.



SET UP

TIME SET
VIDEO LABEL
CHANNEL CAPTION
CHANNEL ERASE
CHANNEL ADD
CABLE: ON
Use[Δ ▽]&[RETURN]

6 Press +/- until the cable is turned off (or on).



SET UP
TIME SET
VIDEO LABEL
CHANNEL CAPTION
CHANNEL ERASE
CHANNEL ADD
CABLE: OFF
Use[Δ ▽]&[RETURN]

7 Press RETURN.



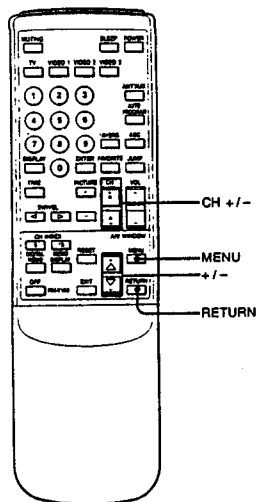
SET UP
TIME SET
VIDEO LABEL
CHANNEL CAPTION
CHANNEL ERASE
CHANNEL ADD
►CABLE: OFF



Cable TV channel chart*
Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

Number on this TV	Corresponding CATV channel
1	A-8
5	A-7
6	A-6
14	A
15	B
16	C
17	D
18	E
19	F
20	G
21	H
22	I
23	J
24	K
25	L
26	M
27	N
28	O
29	P
30	Q
31	R
32	S
33	T
34	U
35	V
36	W
37	W+1
38	W+2
39	W+3
...	...
83	W+57
94	W+68
95	A-5
96	A-4
97	A-3
98	A-2
99	A-1
100	W+59
101	W+60
102	W+61
...	...
123	W+82
124	W+83
125	W+84

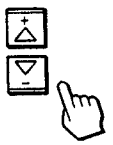
Check with your local cable TV company for more complete information on the available channels.
* The designation of the cable TV channels conforms to the EIA/NTA recommendation.




Note
If you have erased a VHF or UHF channel
The cable TV channel with the same number is
also erased and vice versa.

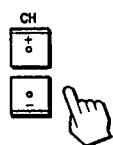
To Erase TV Channels

Steps 1 - 3: Same as in "To Turn the Cable Mode Off (or On)"


- 4 Press +/— until ▷ points to "CHANNEL ERASE".


SET UP
TIME SET
VIDEO LABEL
CHANNEL CAPTION
▷ CHANNEL ERASE
CHANNEL ADD
CABLE: ON
Use[Δ ▽]&[RETURN]
- 5 Press RETURN.


ERASE

Use [CH+, -] to
select the CH.
Then [RETURN] to
erase.
- 6 Press CH +/- to set the desired channel.


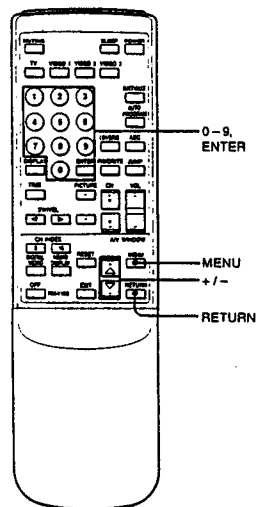
ERASE 8

Use [CH+, -] to
select the CH.
Then [RETURN] to
erase.
- 7 Press RETURN.


ERASE 8

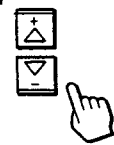
Use [CH+, -] to
select the CH.
Then [RETURN] to
erase.


The channel is erased.
If you want to erase another channel, repeat steps 6 - 7.



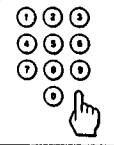
To Add TV Channels

Steps 1 - 3: Same as in "To Turn the Cable Mode Off (or On)" (page 21).



- 4 Press +/— until ▷ points to "CHANNEL ADD".


SET UP
TIME SET
VIDEO LABEL
CHANNEL CAPTION
CHANNEL ERASE
▷ CHANNEL ADD
CABLE: ON
- 5 Press RETURN.


ADD

Use[0-9]&[ENTER]
to select the CH.
Then [RETURN] to
add.
- 6 Press 0-9 to set the desired channel.


ADD 2 0

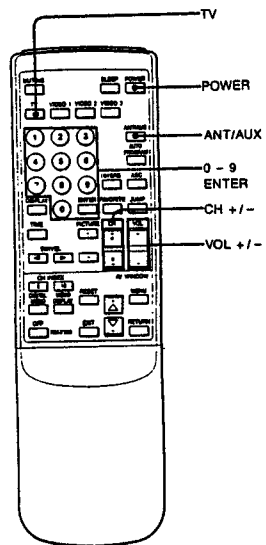
Use[0-9]&[ENTER]
to select the CH.
Then [RETURN] to
add.
- 7 Press ENTER.

- 8 Press RETURN.


ADD + 2 0

Use[0-9]&[ENTER]
to select the CH.
Then [RETURN] to
add.

The channel is added.
If you want to add another channel, repeat steps 6 - 8.

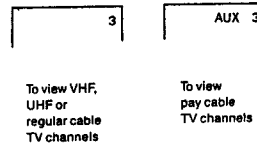
1-3. WATCHING TV PROGRAMS



1 Press POWER on the TV or the Remote Commander to turn on the TV.



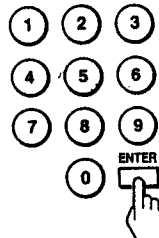
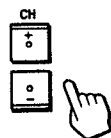
2 Press ANT/AUX according to the channel to be watched.
If you want to change the cable mode,



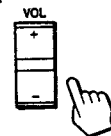
3 Select a channel in one of the following two ways:

To scan the preset channels in numerical sequence, press CH +/-.

To select a channel directly, press the channel number button(s) and then ENTER.
For example, to select channel 10, press 1, 0 and ENTER.



4 Press VOL + or - to adjust the volume.



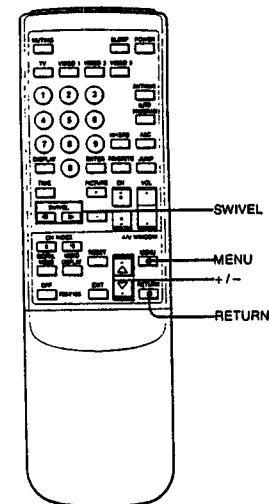
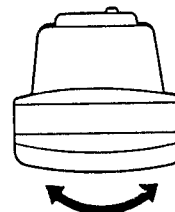
Notes
To turn off the TV
Press POWER on the TV or the Remote Commander again.

If the indication "VIDEO 1, VIDEO 2, VIDEO 3, S VIDEO, LD, or VTR" is displayed on the screen,
Press TV on the Remote Commander.

If you set the FAVORITE CHANNEL,
You can choose the channels more easily.

1-4. ADJUSTING THE SWIVEL

TV top view



Notes
On activating degauss
When you swivel the screen right after activating the degauss function, wait for 5 minutes or more before activating it again.

During activating degaussing
The picture may be confused.

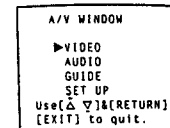
When rotating the TV on its swivel
Be careful that the corners of the TV casing do not hit obstructions, thus marring the finish.

Press SWIVEL </> to swivel the TV.
You can adjust the angle by 15 degrees in each direction.

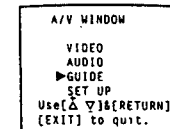
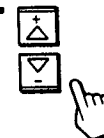
Activating Degaussing

When you use the SWIVEL function, the picture may suffer from color shading. If this occurs, you can adjust it by activating the degauss function.

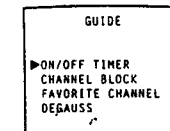
1 Press MENU.



2 Press +/- until > points to "GUIDE".



3 Press RETURN.



4 Press +/- until > points to "DEGAUSS".



5 Press RETURN.



The degauss function is activated.

1-5. WATCHING TWO OR MORE CHANNELS AT THE SAME TIME (The models equipped with this functions)

You can watch two or more channels at the same time.

- When watching two channels (the main picture and a window picture)

You can:

- swap the main and the window picture.
- change the position of the window picture.
- replay the main picture displayed 2 seconds before in the window picture.
- split the screen with the main and the window picture.
- store a TV picture.

- When watching more channels (the main picture and several window pictures)

You can:

- watch 8 different channels
- watch 16 different channels

- You can scan other channels



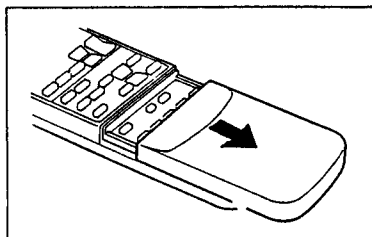
For KV-32XBR75

When you press MULTI PICTURE on the TV, the picture-in-picture features will be demonstrated.

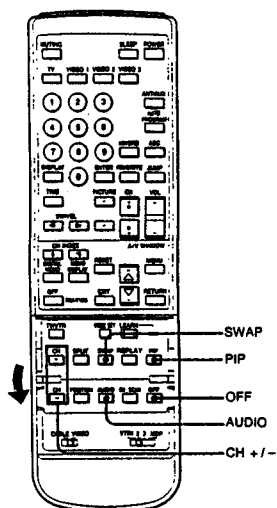
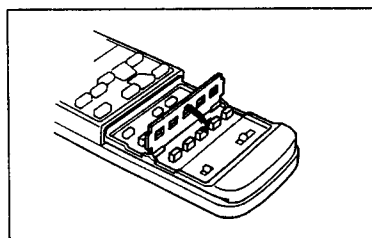
To cancel the demonstration, press OFF.

Preparation

- 1 Slide the cover of the supplied Remote Commander.



- 2 Flip down the panel to use the picture-in-picture area.



To make the window picture disappear
Press OFF.

To scan programs in the window picture
Press CH +/ - in the picture-in-picture area.

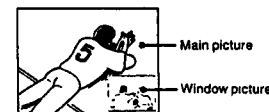
Notes on the window picture

- In the window picture, the VIDEO LABEL and CHANNEL CAPTION will not appear even if you have set them.
- If a window picture is blocked, the "B" indication will appear on the window screen.

Watching a Window Picture

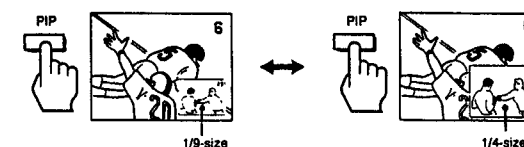
Besides the main picture, you can watch another TV channel (including CATV) or a video source simultaneously in a window picture.

You can enjoy the convenience of the "picture-in-picture" function when there are two TV channels you want to watch at the same time or when you want to monitor your VCR while watching TV, etc.



To display a TV program in a window

Press PIP.



The window picture in the last mode you watched will appear. Each time PIP is pressed, a 1/4-size or 1/9-size window picture will appear alternately.

To hear the sound for the window picture

Press AUDIO.

To hear the sound for the main picture, press AUDIO again.

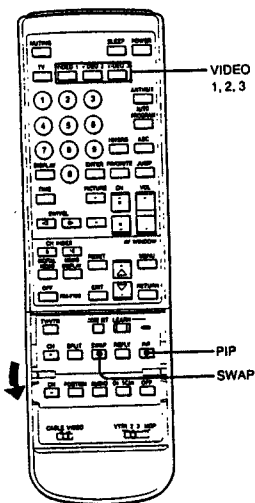
- The sound of the window picture is also output from the VARIABLE AUDIO OUT.

(The MONITOR OUT outputs the sound of the main picture only.)

- The sound for the window picture is monaural when you use the RFU output.
- When you press AUDIO, the "h" indication appears and you can know the sound comes from which.

To swap the main and the window pictures

Press SWAP.



Watching a Window Picture (continued)

To display VIDEO input picture in a window
 You can watch VIDEO input picture (either playback picture or TV program from VCR tuner) using picture-in-picture.
 If you want to control your VCR with the supplied Remote Commander.

1 Press PIP.



2

Press VIDEO 1, 2, or 3 to select the desired input mode.
 You can only change the VIDEO input mode in the main picture.



3

Press SWAP so that the VIDEO input picture becomes a window picture.

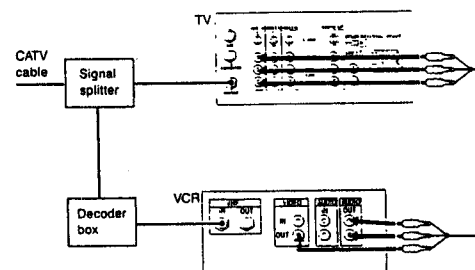


To change the VIDEO input mode, press SWAP again to swap with the main picture.

To display pay cable TV in a window

If you use a cable converter box, make proper connection for using picture-in-picture first.

Connection



Operation

Steps 1 - 3: same as in "To display VIDEO input picture in a window".

4

Put your VCR on an inactive channel (3CH or 4CH).

5

Change pay cable TV channels with the decoder box.

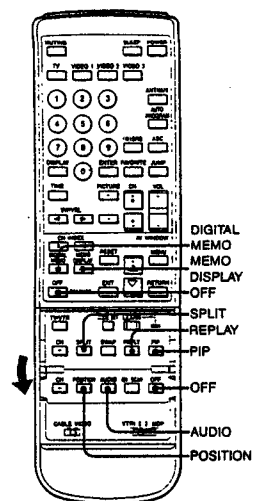


If you want to control your VCR or decoder box with the supplied Remote Commander

If you connect your decoder box to the AUX terminal
 You can watch the SPLIT and REPLAY picture only.



With the supplied Remote Commander
 You cannot control VCR without settings.

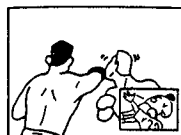


On replay picture
The replay picture is always displayed in 1/9 size.

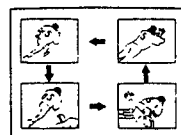
Advanced Operation of a Window Picture

To change the position of a window picture

1 Press PIP.

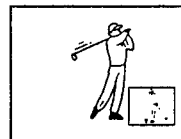


2 Press POSITION.
Each time you press POSITION, the window picture will move as illustrated.



To replay the main picture displayed 2 seconds before in the window picture

Press REPLAY.



To make the replay picture disappear, press OFF.

To store a TV picture

You can store a desired picture in the memory of this TV. You can recall the stored picture.
Storing the picture is convenient when you want to write down a recipe of a cooking program or a displayed toll free number, etc.

Press DIGITAL MEMO.
The TV picture will be stored.



To restore the normal picture
Press MEMO DISPLAY.



When you press MEMO DISPLAY, the screen changes from the stored picture to the normal picture.

To recall the stored picture
Press MEMO DISPLAY again.



The memory of the stored picture is kept except for the following cases:

- when the TV is turned off.
- when another picture-in-picture function is used.
- when you press OFF twice.

To split the screen between the main picture and the window picture

Press SPLIT.



Window picture Main picture



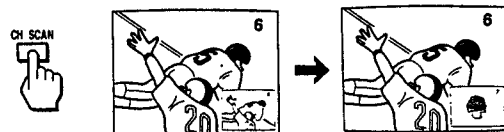
To make the window picture disappear
Press OFF.

To hear the sound for the window picture
Press AUDIO.

When using the split-screen feature
Vertical lines may appear to you to be elongated.

Scanning Other Channels

Press CH (channel) SCAN.



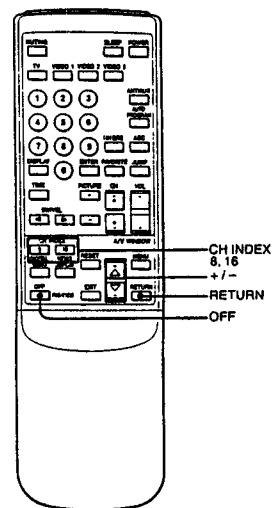
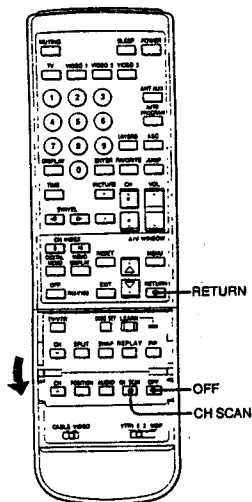
Each channel appears in the window picture for 3 seconds sequentially.

To watch the channel in the window picture continuously.
Press RETURN while the desired channel is in the window picture.

Press RETURN.



To cancel CHANNEL SCAN
Press OFF.



When you use the CH INDEX 8 function, part of the main picture is covered by the window pictures.

Watching Several Window Pictures Simultaneously

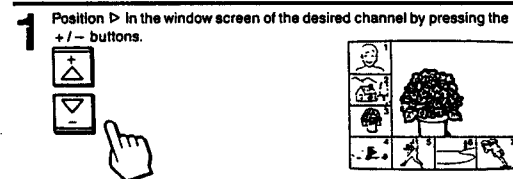
To display 8 different channels
(the main picture and 7 window pictures)

Press CH INDEX 8.



Programs of seven TV channels appear in numerical sequence as window pictures.
Each time you press CH INDEX 8, the next seven sequential channels will appear.

To watch one of the window pictures



2 Press RETURN.

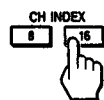


The chosen channel will appear as the main picture.

To cancel CH INDEX 8, press OFF.

To display 16 different channels as window pictures

Press CH INDEX 16.



Programs of 16 different TV channels appear in numerical sequence as window pictures. Each time you press CH INDEX 16, the next 16 channels will appear.

To watch one of the window pictures

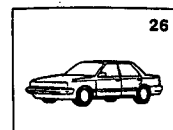
- 1 Position ▸ in the window screen of the desired channel by pressing the + / - buttons.



- 2 Press RETURN.



The chosen channel will appear.



To cancel CH INDEX 16, press OFF.

1-6. SETTING UP ON THE SCREEN

Captioning the TV Stations

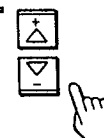
You can assign a station name using up to four characters to up to 32 program positions to identify the received channel for display on the screen together with the program position number.

Example: To assign "ABC" to channel 15.

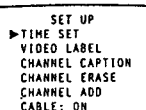
- 1 Press MENU.



- 2 Press + / - until ▸ points to "SET UP".



- 3 Press RETURN.



- 4 Press + / - until ▸ points to "CHANNEL CAPTION".



Note
When the memory is full, the indication "The memory is full, sorry" appears. In this case, clear the unnecessary settings.

5 Press RETURN.



CHANNEL	----
CAPTION	----

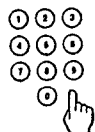
Enter the CH to be captioned.
Use [0-9]&[ENTER].



To restore the normal picture
Press EXIT.

To clear the setting
Display the "CHANNEL CAPTION" page and
press RESET, then EXIT.

6 Press 0 - 9 to set the channel to be captioned.
(For 15, press 1, then 5.)



CHANNEL	15
CAPTION	----

Enter the CH to be captioned.
Use [0-9]&[ENTER].

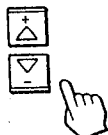
7 Press ENTER.



CHANNEL	15
CAPTION	----

Select the 1st letter.
Use [Δ ▽]&[RETURN]

8 Press + / - until the letter or number you want appears.



CHANNEL	15
CAPTION	A----

Select the 1st letter.
Use [Δ ▽]&[RETURN]

9 Press RETURN.



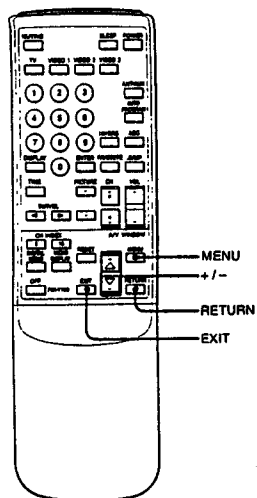
CHANNEL	15
CAPTION	AB--

Select the 2nd letter.
Use [Δ ▽]&[RETURN]

10 Repeat steps 8 and 9 for selecting other letters.
(For "ABC", select "B", "C", then select blank.)
Now the CHANNEL CAPTION is set.
If you want to caption more stations,
press RETURN.

CHANNEL	15
CAPTION	ABC

Press [RETURN]
to continue.



Labeling Each Video Input Mode

You can label each input mode as VTR, S VIDEO, or LD to easily identify what equipment is connected to which input terminal.

When you enter the label, the TV automatically adjusts itself internally to enhance the picture quality for the labeled equipment.

Example: Label VIDEO 1 with S VIDEO.

1 Press MENU



A/V WINDOW
▶VIDEO
AUDIO
GUIDE
SET UP
Use[Δ ▽]&(RETURN)
[EXIT] to quit.

2 Press +/- until ▶ points to "SET UP".



A/V WINDOW
VIDEO
AUDIO
GUIDE
▶SET UP
Use[Δ ▽]&(RETURN)
[EXIT] to quit.

3 Press RETURN.



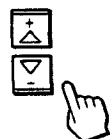
SET UP
▶TIME SET
VIDEO LABEL
CHANNEL CAPTION
CHANNEL ERASE
CHANNEL ADD
CABLE: ON

4 Press +/- until ▶ points to "VIDEO LABEL", then RETURN.



SET UP
TIME SET
▶VIDEO LABEL
CHANNEL CAPTION
CHANNEL ERASE
CHANNEL ADD
CABLE: ON

5 Press +/- until ▶ points to your desired input terminal.



VIDEO LABEL
▶VIDEO 1: VIDEO 1
VIDEO 2: VIDEO 2
VIDEO 3: VIDEO 3
DIRECT PLAY

6 Press RETURN.



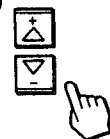
VIDEO LABEL
▶VIDEO 1: VIDEO 1
VIDEO 2: VIDEO 2
VIDEO 3: VIDEO 3
DIRECT PLAY

7 Press RETURN.
Then "VIDEO 1" on the right turns red.



VIDEO LABEL
VIDEO 1: VIDEO 1
VIDEO 2: VIDEO 2
VIDEO 3: VIDEO 3
DIRECT PLAY
Use[Δ ▽]&(RETURN)
to select.

8 Press +/- until the label you want appears.



VIDEO LABEL
VIDEO 1: S VIDEO
VIDEO 2: VIDEO 2
VIDEO 3: VIDEO 3
DIRECT PLAY
Use[Δ ▽]&(RETURN)
to select.

9 Press RETURN.

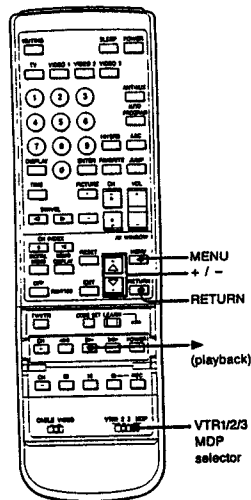


VIDEO LABEL
▶VIDEO 1: S VIDEO
VIDEO 2: VIDEO 2
VIDEO 3: VIDEO 3
DIRECT PLAY

If you want to label VIDEO 2 or 3, repeat steps 5-9.
Now, VIDEO LABEL is set.



To restore the normal picture
Press EXIT.

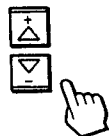


Direct Play Function

With this function, you can change the input mode from TV to VCR by pressing the ► (playback) button on the supplied Remote Commander.
Example: When you connect your VCR to the VIDEO 1 IN jacks and control the VCR when the VTR1/2/3 MDP selector is set to VTR2 on the supplied Remote Commander.
 First, the TV needs to memorize the VTR selector position on the Remote Commander which you use to control your VCR.

Step1-4: Same as in "Labeling Each Video Input Mode".

5 Press + / - until ► points to "DIRECT PLAY".



VIDEO LABEL
 VIDEO 1: 5 VIDEO
 VIDEO 2: VIDEO 2
 VIDEO 3: VIDEO 3
 ►DIRECT PLAY

6 Press RETURN.



DIRECT PLAY
 Program your remote with "pre-set code" before using DIRECT PLAY feature.

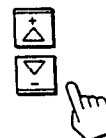
If you have not set the manufacturer's code yet, see page 60 and set it. (When you use Sony video equipment, this setting is not necessary. For details

7 Press RETURN



DIRECT PLAY
 ►VIDEO 1: OFF
 VIDEO 2: OFF
 VIDEO 3: OFF
 VIDEO LABEL

8 Press + / - until ► points to your VCR input. (If you connected your VCR to VIDEO 1 IN jacks, make ► point to "VIDEO 1".)



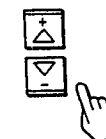
DIRECT PLAY
 ►VIDEO 1: OFF
 VIDEO 2: OFF
 VIDEO 3: OFF
 VIDEO LABEL

9 Press RETURN.



DIRECT PLAY
 VIDEO 1: OFF
 VIDEO 2: OFF
 VIDEO 3: OFF
 VIDEO LABEL
 Use[▲ ▼](RETURN) to select.

10 Press + / - until the VTR selector mode that you control your VCR at appears. (If you control your VCR at VTR 2 in the Remote Commander, make "VTR 2" appear.)



DIRECT PLAY
 VIDEO 1: VTR 2
 VIDEO 2: OFF
 VIDEO 3: OFF
 VIDEO LABEL
 Use[▲ ▼](RETURN) to select.

11 Press RETURN.



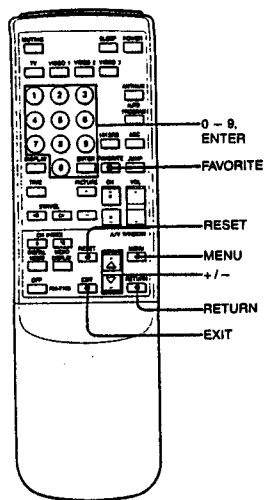
DIRECT PLAY
 ►VIDEO 1: VTR 2
 VIDEO 2: OFF
 VIDEO 3: OFF
 VIDEO LABEL

If you connect other video equipment, repeat steps 8-11.
 Now, direct play setting is set.



To restore the normal picture Press EXIT.

When you are watching a VCR picture, as you press the ► (playback) button, the input mode changes from TV to VCR.
Example: When you set the VTR1/2/3 MDP selector to VTR2 and press ►, the input mode changes to the VCR that is connected to the VIDEO 1 IN jacks.



Note
When the memory is full, the indication "The memory is full, sorry" will appear.
In this case, clear the unnecessary settings.

Captioning the TV Stations

You can assign a station name using up to four characters to up to 32 program positions to identify the received channel for display on the screen together with the program position number.

Example: To assign "ABC" to channel 15.

1 Press MENU.



A/V WINDOW
▶VIDEO
AUDIO
GUIDE
SET UP
Use[Δ ▽]&[RETURN]
[EXIT] to quit.

2 Press +/- until ▸ points to "SET UP".



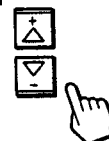
A/V WINDOW
VIDEO
AUDIO
GUIDE
▶SET UP
Use[Δ ▽]&[RETURN]
[EXIT] to quit.

3 Press RETURN.



SET UP
▶TIME SET
VIDEO LABEL
CHANNEL CAPTION
CHANNEL ERASE
CHANNEL ADD
CABLE: ON

4 Press +/- until ▸ points to "CHANNEL CAPTION".



SET UP
TIME SET
VIDEO LABEL
▶CHANNEL CAPTION
CHANNEL ERASE
CHANNEL ADD
CABLE: ON

5 Press RETURN.



CHANNEL
CAPTION

Enter the CH to
be captioned.
Use[0-9]&[ENTER].

6 Press 0 - 9 to set the channel to be captioned.
(For 15, press 1, then 5.)



CHANNEL
CAPTION
15

Enter the CH to
be captioned.
Use[0-9]&[ENTER].

7 Press ENTER.



CHANNEL
CAPTION
15

Select the 1st
letter.
Use[Δ ▽]&[RETURN]

8 Press +/- until the letter or number you want appears.



CHANNEL
CAPTION
15
A____

Select the 1st
letter.
Use[Δ ▽]&[RETURN]

9 Press RETURN.



CHANNEL
CAPTION
15
AB____

Select the 2nd
letter.
Use[Δ ▽]&[RETURN]

10 Repeat steps 8 and 9 for selecting other letters.
(For "ABC", select "B", "C", then select blank.)
Now the CHANNEL CAPTION is set.
If you want to caption more stations, press RETURN.

CHANNEL
CAPTION
15
ABC

Press [RETURN]
to continue.

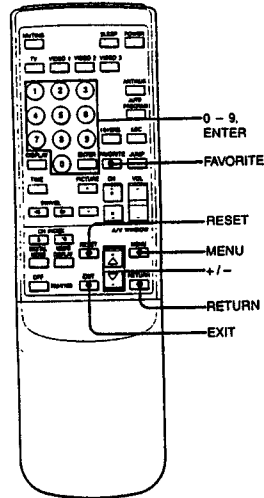
Notes



To restore the normal picture
Press EXIT.

To clear the setting
Display the "CHANNEL CAPTION" page and
press RESET, then EXIT.

1-7. SETTING TIMER-ACTIVATED FUNCTIONS



Setting the ON/OFF Timer

You can make three programs of your choice appear on the screen at the desired time with the ON/OFF timer.
Example: Set the timer to turn on the TV to channel 8 at 1:30 AM for 3 hours every Monday through Friday as PROGRAM 1.

1 Press MENU.



A/V WINDOW
▶ VIDEO
AUDIO
GUIDE
SET UP
Use [Δ ▽] & [RETURN]
[EXIT] to quit.

2 Press +/- until ▶ points to "GUIDE", then RETURN.



GUIDE
▶ ON/OFF TIMER
CHANNEL BLOCK
FAVORITE CHANNEL
DEGAUSS

* "DEGAUSS" appears.

3 Make sure ▶ points to "ON/OFF TIMER", then press RETURN.



* ON/OFF TIMER
▶ PROGRAM 1:
PROGRAM 2:
PROGRAM 3:

4 Make sure ▶ points to "PROGRAM 1" (for PROGRAM 2 and 3, press +/- to select the desired one), then press RETURN.



* ON/OFF TIMER 1
_ : _ AM
CH _
Select the day.
Use [Δ ▽] & [RETURN]



To restore the normal picture
Press EXIT.

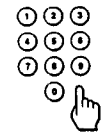
To clear the setting
Display the "ON/OFF TIMER" page and press
RESET, then EXIT.

5 Press +/- until the day of the week you want appears, then press RETURN.



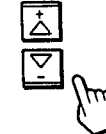
ON/OFF TIMER 1
EVERY SUN-SAT
_ : _ AM
CH _
Set the time.
Use [0-9] & [RETURN]

6 Press 0 - 9 to set the time you want, (For 1:30, press 0 1 3 0.) then press RETURN.



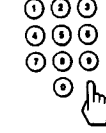
ON/OFF TIMER 1
EVERY SUN-SAT
1 : 30 AM
CH _
Set AM or PM.
Use [Δ ▽] & [RETURN]

7 Press +/- to set AM or PM, then RETURN.



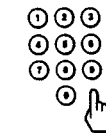
ON/OFF TIMER 1
EVERY SUN-SAT
1 : 30 AM
CH _
Set the duration.
Use [0-9] & [RETURN]

8 Press 1 - 9 to set the duration, then RETURN.



ON/OFF TIMER 1
EVERY SUN-SAT
1 : 30 AM
3 H
CH _
Set the channel.
Use [0-9] & [RETURN]

9 Press 0 - 9 to set the channel number you want, then RETURN.



ON/OFF TIMER 1
EVERY SUN-SAT
1 : 30 AM
3 H
CH 8
Press [RETURN]
to continue.

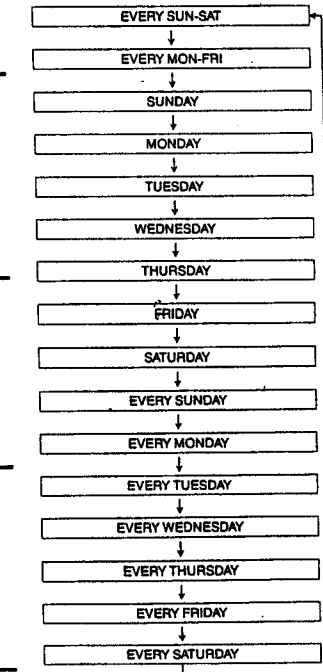
If you want to set program 2 or 3, press RETURN and repeat steps 4 - 9.



If you have not set the CURRENT TIME yet
The following message will appear.
Go back to set the clock.

Current time is
not set.
Press [RETURN]
to set the time.

The selectable days of the week
When you press +, the selectable days of
the week will appear in the following order:



Press - for reverse direction.

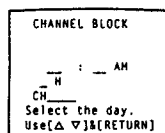
Setting the Channel Block

CHANNEL BLOCK prevents a channel from appearing on the screen for preset hours. We suggest you to use this function to prevent children from watching undesirable programs.

Example: Set the CHANNEL BLOCK at 4:00 PM (for 1 hour), every Saturday, on channel 12.

Step 1 - 2: Same as in "Setting the ON/OFF Timer".

3 Press + / - until > points to "CHANNEL BLOCK", then RETURN.

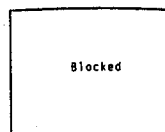


Step 5* - 9: Same as in "Setting the ON/OFF Timer".

* Step 4 is not necessary for the channel block operation.



Now CHANNEL BLOCK is set. The picture of the selected channel will be blocked from viewing and the sound will be muted, at the preset time. A red "Blocked" indication will appear on the screen while the channel is blocked.



Notes
To restore the normal picture
Press EXIT.

To clear the setting
Display the "CHANNEL BLOCK" page and
press RESET, then EXIT.

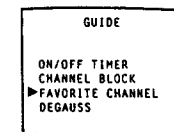
To reset the setting
Display the "CHANNEL BLOCK" page and
repeat the steps from the beginning.

1-8. SETTING YOUR FAVORITE CHANNELS

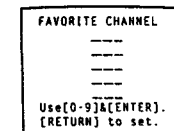
By setting your favorite channels (maximum 5 channels), you will be able to choose them quickly just by pressing the FAVORITE button. First, store your favorite channels.

Step 1 - 2: Same as in "Setting the ON/OFF Timer".

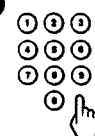
3 Press + / - until > points to "FAVORITE CHANNEL".



4 Press RETURN.

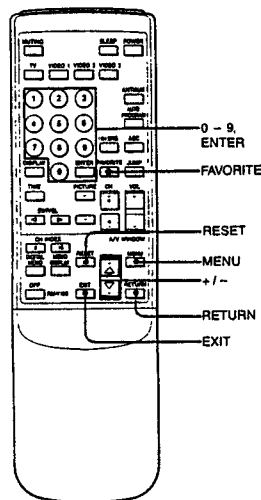


5 Press 0 - 9 to set the channel number you want.



6 Press ENTER.





7 Repeat steps 5 and 6 for the rest of the channels.
If you do not want to store any more channels, you can go to step 8.

FAVORITE CHANNEL
36
---2

Use [0-9] & [ENTER].
[RETURN] to set.

8 Press RETURN.
Now the FAVORITE CHANNEL is set.



FAVORITE CHANNEL
36
2
42
55
19
FAVORITE CH is
set. Thank you.

After setting your favorite channels
Each time you press FAVORITE, the channels will appear sequentially.



To restore the normal picture
Press EXIT.

To clear the setting
Display the "FAVORITE CHANNEL" page and press RESET, then EXIT.

To reset the setting
Display the "FAVORITE CHANNEL" page and repeat the steps from the beginning.

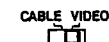
1-9. USING THE PROGRAMMABLE REMOTE COMMANDER

You can operate other remote controlled video equipment using the supplied RM-Y108 Remote Commander. The supplied Remote Commander is programmed to operate Sony video equipment. In addition, you can reprogram this Remote Commander to operate non-Sony equipment.

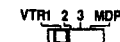
Operating Sony Video Equipment

With the supplied Remote Commander, you can operate Sony video cassette recorders (Beta, 8mm VHS) and video disc players (including multi disc player) without programming.

1 Set the CABLE/VIDEO selector to VIDEO.



2 Set the VTR 1/2/3/MDP selector according to the video equipment you want to operate.



If you want to operate A:	then set to
Beta, ED Beta VCR	VTR 1
8mm VCR	VTR 2
VHS VCR	VTR 3
Video disc player	MDP

3 Use the buttons in the video operating area to operate the video equipment.

Operating a video cassette recorder

To record Press ●.
To start playback Press ►.
To stop Press ■.
To advance the tape rapidly Press ►►.
To rewind the tape Press ◄◄.
To freeze a picture Press ||.

To resume normal playback, press again.

To view the picture at a fast speed to find a particular scene

Keep pressing ►► or ◄◄ during playback.

To resume normal playback, release the button.

If the equipment does not have a certain function, the corresponding button on this Remote Commander is not effective.

Operating a video disc player

To start playback Press ►.
To stop Press ■.
To freeze a picture Press ||.

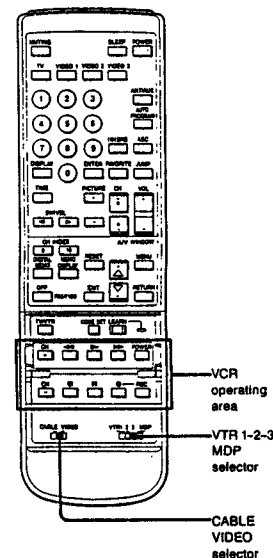
To resume normal playback, press again.

This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the video disc player will go into the standby mode if || is pressed.

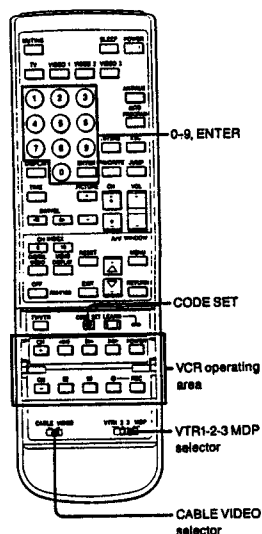
To view the picture at a fast speed to find a particular scene

Keep pressing ►► or ◄◄ during playback.

To resume normal playback, release the button.



After setting other manufacture's code
You cannot operate Sony video equipment with the supplied Remote Commander without setting the Sony.



Operating Non-Sony or Sony Video Equipment (Pre-programmed Function)

The supplied Remote Commander has pre-programmed functions. Thus you can operate non-Sony video equipment with the supplied Remote Commander by setting the manufacturer's code.

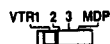
Setting the manufacturer's code

- 1 Set the CABLE/VIDEO selector to VIDEO.

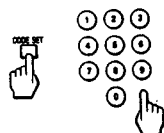


- 2 Set the VTR1/2/3/MDP selector to the position that you want to operate the equipment at.

By employing the VTR 1/2/3 settings, you can use your remote commander to operate up to 3 pieces of equipment.
Note: If you also use Sony video equipment, set other maker's equipment to a position not being used for your Sony video equipment.



- 3 While pressing CODE SET, press manufacture's code numbers (See table).



- 4 Press ENTER.



The LEARN indicator turns green and then goes off. (A long beep)
Now you can operate the non-Sony video equipment with the supplied Remote Commander.

- 5 Use the video operating buttons to operate video equipment.

Manufacturers and their code numbers (video cassette recorder)

Manufacturer	Code number
Sony	01, 02, 03
Canon	05
Emerson	22, 30, 33
Fisher	10, 11, 12, 15
Funai	29
General electronic	05, 08
Goldstar	25
Hitachi	07, 08
JVC	18
Magnavox	05, 06, 09
Mitsubishi	18, 19, 26, 27
Multitech	29
NEC	18, 23, 31
Panasonic	05, 06
Philco	05, 06
Philips	05, 06, 09
Quasar	05, 06
RCA	07, 08
Samsung	24, 32
Sanyo	11, 15
Scott	21
Sharp	13, 14
Shintom	34
Sylvania	05, 06, 09
Symphonic	29
Teknika	28, 29
Toshiba	20, 21
Tote vision	25
Zenith	17

Manufacturers and their code numbers (video disc player)

Manufacturer	Code number
Sony	04
Kenwood	58
Magnavox	52
Marantz	54
Mitsubishi	51
Panasonic	55
Philips	52
Pioneer	51
RCA	51
Sanyo	57
Sharp	56
Yamaha	53



On the code number

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- If you enter a new code number, the code number previously entered at that setting will be erased.

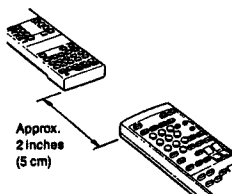
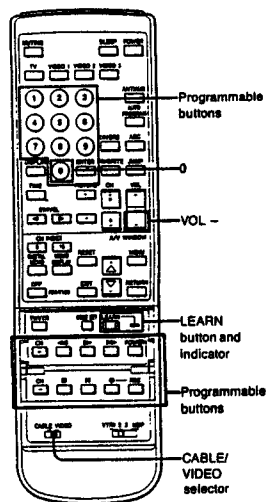
On Sony's code number

The number and operable equipment are as follows:

- 01: Beta
- 02: 8 mm
- 03: VHS
- 04: MDP

For your convenience

You can write the operable manufacturer and its code number in the supplied seal and stick it on the rear of the Remote Commander.

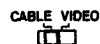


Note
For accurate learning
Do not move the remote commanders during the learning process.

Operating non-Sony or Sony Audio and Video Equipment (Learning Function)

With this feature, you can "teach" any of the programmable buttons to operate one function each of another remote commander. Use the Learning function to program the supplied remote commander to operate non-Sony and Sony audio equipment, your remote controlled cable decoder box, and video equipment of manufacturers not listed in the chart.

- 1 Set the CABLE/VIDEO selector to CABLE.



- 2 Face this Remote Commander with the other remote commander head to head, approximately 2 inches (5 cm) apart.

- 3 Press LEARN.
The LEARN indicator lights up in green.



- 4 Momentarily press the button of this Remote Commander on which a function is to be memorized.
The LEARN indicator lights up in red. (A short beep).
Now it's ready for learning.

The Remote Commander beeps repeatedly if there is inappropriate operation. Try again from this step.

- 5 Keep pressing the function button of the other remote commander until the LEARN indicator turns to green again. (A long beep)
If this does not happen, the learning process has not been completed. Repeat steps 4 and 5.

- 6 To program other buttons, repeat steps 4 - 5.

- 7 Press LEARN.
The LEARN indicator lights up in red, then goes off.
Now the setting is complete.

Clearing memorized functions

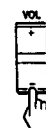
- 1 Set the CABLE/VIDEO selector to CABLE.



- 2 Press LEARN.
The LEARN indicator lights up in green.



- 3 Press VOLUME - .
Keep pressing the VOLUME - button and "0" at once until 6 short beeps are heard.



- 4 Press LEARN.
Now all the memorized functions are cleared.



The learning function will not work in the following cases:

Problems:	Solutions:
There is a fluorescent lamp or equipment which emits infrared energy.	Move the remote commanders away from such infrared sources.
The batteries are exhausted.	Replace all the batteries with new ones.
There is an obstacle between the Remote Commanders, or the Remote Commanders are not positioned head to head and exactly aligned.	Position the Remote Commanders properly.



On learning Function

- When you clear the memorized functions, the buttons retain their factory set memory.
- Be sure to confirm that the functions have been memorized as a few commanders of other manufacturers are not compatible with this Remote Commander.
- Do not use the learning function for other than video and audio equipment.
- When operating equipment with learned functions, the selectors should be set to the same position as they were when the functions were memorized.
- When a new function is assigned to a button, the previous function is cleared automatically.
- When the memories are full, the LEARN indicator lights steadily if you try to memorize a new function.
In such a case, set the USE/LEARN selector to USE to turn the indicator off, then clear the unnecessary functions.

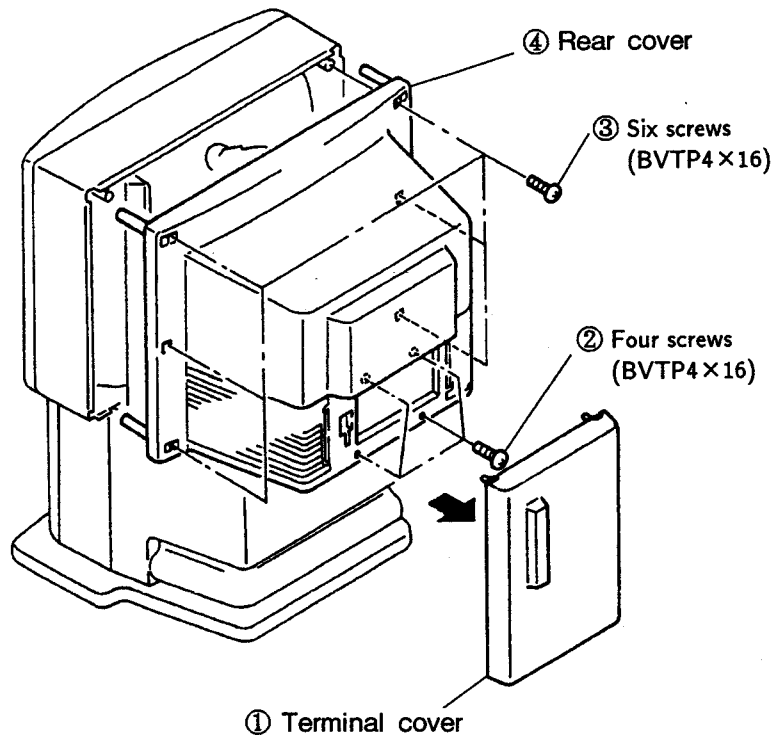
Caution



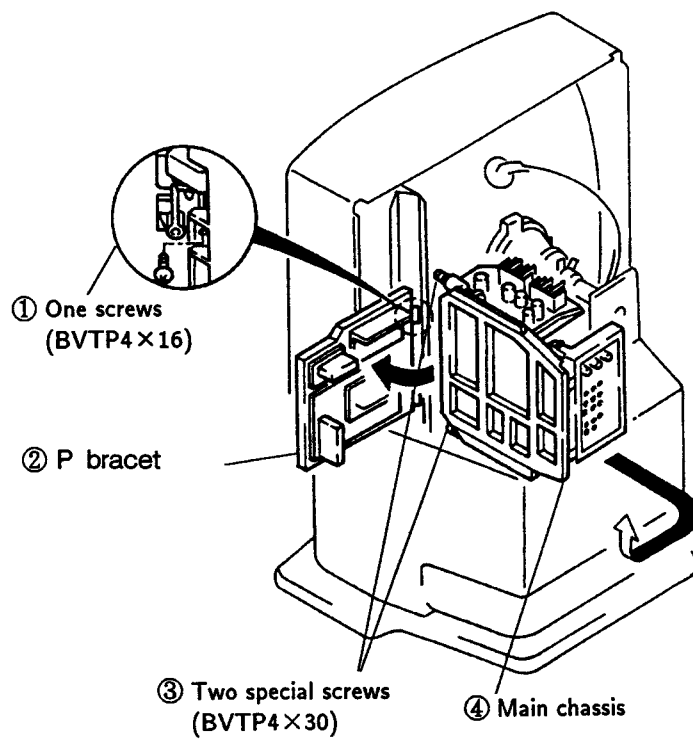
When replacing the batteries, do it within approximately 30 minutes. Otherwise, the memorized functions may be erased.

SECTION 2 DISASSEMBLY

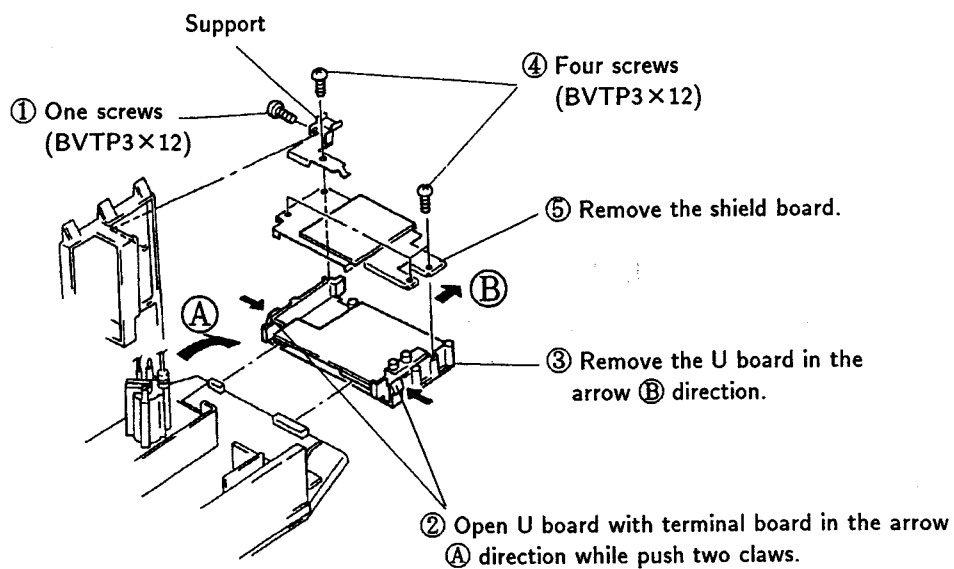
2-1. REAR COVER REMOVAL



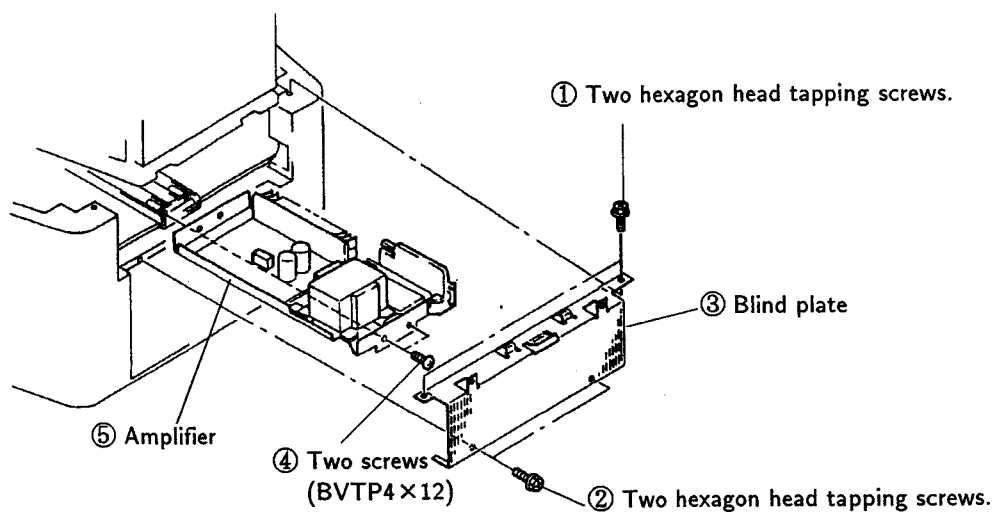
2-2. SERVICE POSITION



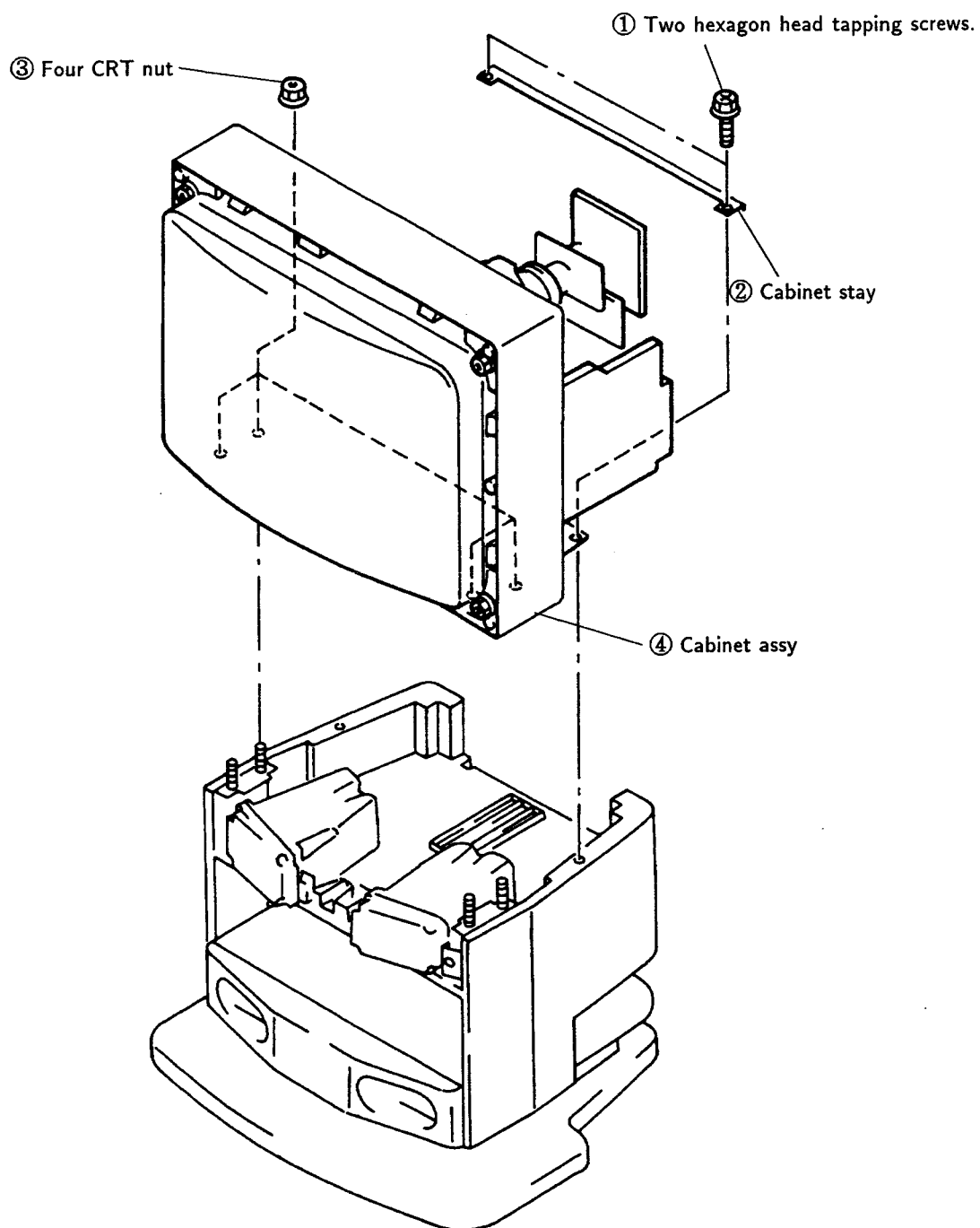
2-3. U BOARD REMOVAL



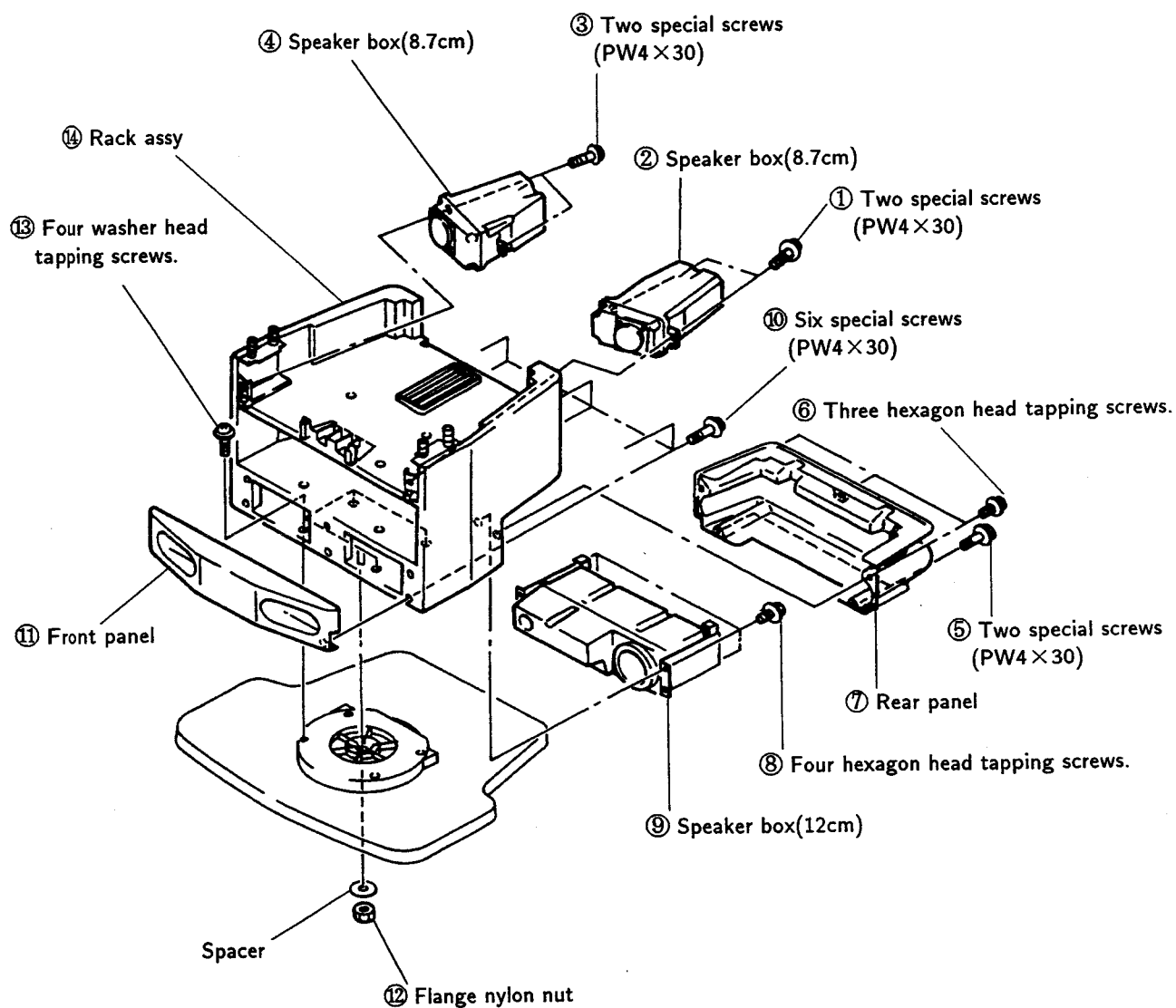
2-4. AMPLIFIER BOARD REMOVAL



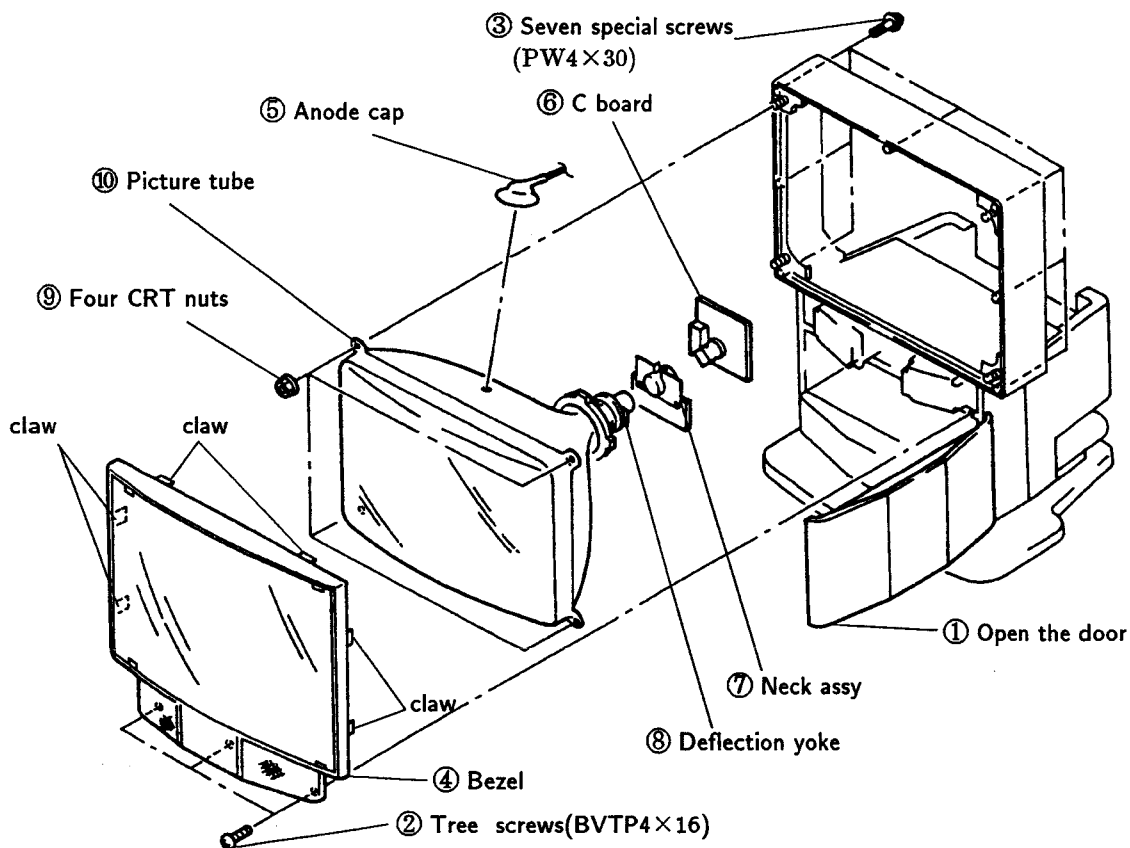
2-5. CABINET ASSY REMOVAL



2-6. RACK ASSY REMOVAL

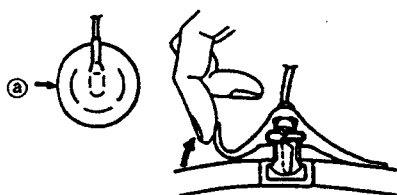


2-7. PICTURE TUBE REMOVAL

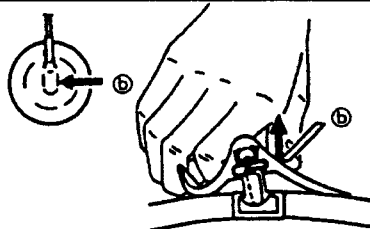


• REMOVAL OF ANODE-CAP • REMOVING PROCEDURES

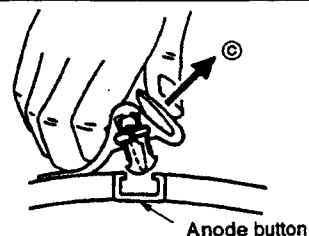
Note : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.



① Turn up one side of the rubber cap in the direction indicated by the arrow (a).



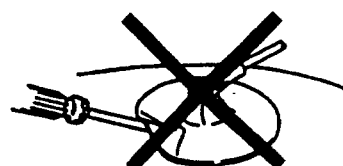
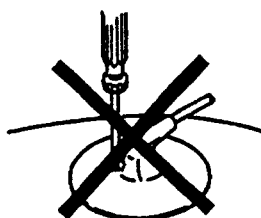
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

PICTURE control RESET
BRIGHTNESS control RESET

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note: Test Equipment Required.

1. Color-bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter

Preparation:

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Position neck assy as shown in Fig.2.

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.3.
3. Turn the raster signal of the pattern generator to green.
4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are at the sides evenly. (Fig.4)
5. Move the deflection yoke forward, and adjust so that entire screen becomes green. (Fig.1)
6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. When landing at the corners is not right, adjust by using the disk magnets. (Fig.5)

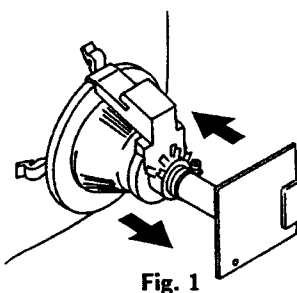


Fig. 1

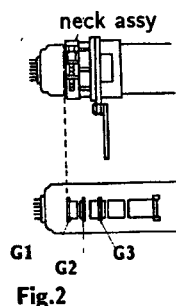


Fig.2

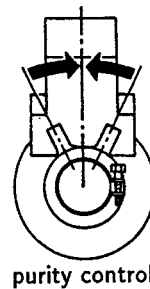


Fig. 3

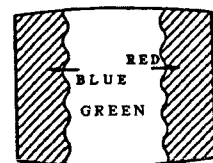


Fig. 4

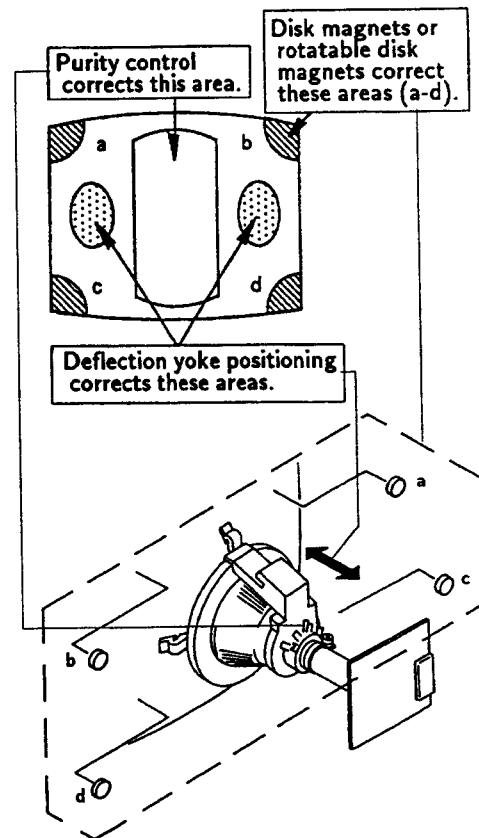


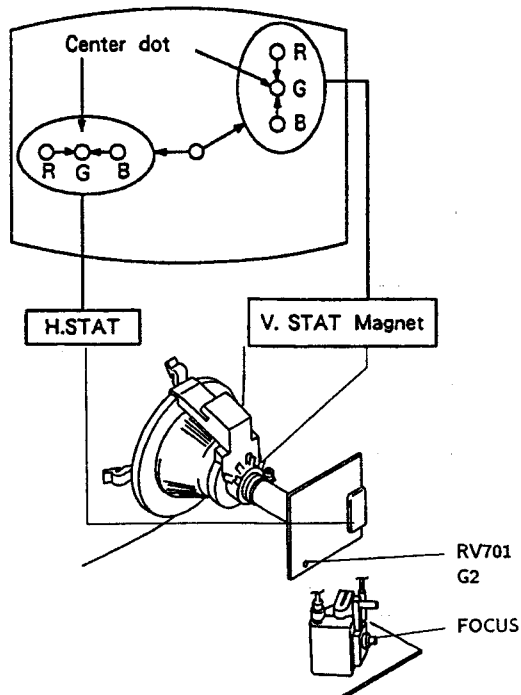
Fig. 5

3-2. CONVERGENCE

Preparation

- Before starting, perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern and set the PICTURE control to RESET.

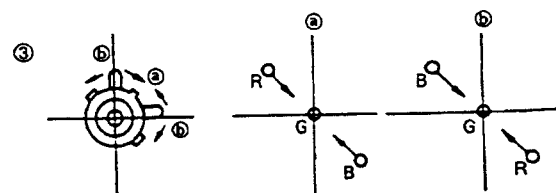
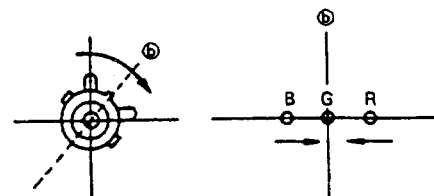
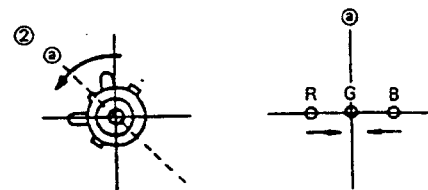
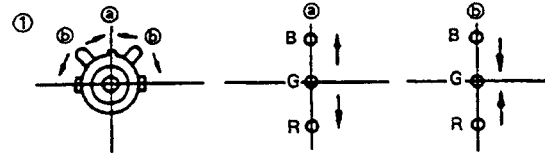
(1) Horizontal and Vertical Static Convergence



1. Adjust H.STAT VR to converge red, green and blue dots in the center of the screen. (Horizontal movement)
 2. Adjust V.STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
 3. If the red, green and blue dots do not converge in the center of the screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



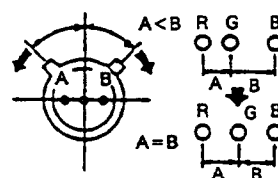
4. When the V.STAT magnet is moved in the direction of arrow ① and ②, red, green and blue dots move as shown below.



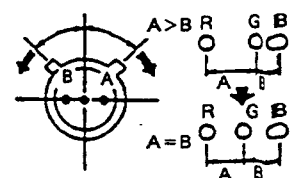
If the blue dot do not converge with red and green dots, perform following steps.

- HMC and VMC correction for BMC (Hexapole) Magnet
1. HMC (Horizontal Mis-convergence) correction and motion of the Electron Beam with the BMC Magnet.

HMC correction (A)

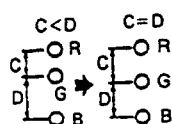
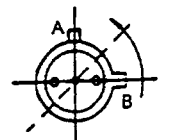


HMC correction (B)

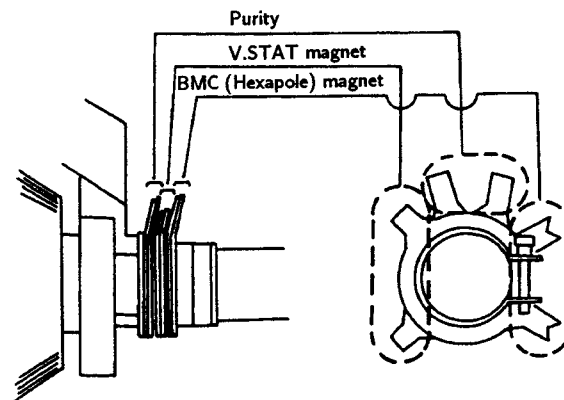
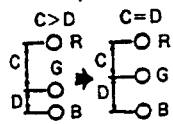
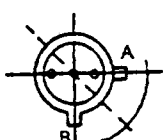


2. VMC (Vertical Mis-convergence) correction and motion of the Electron Beam with the BMC Magnet.

VMC correction (A)



VMC correction (B)



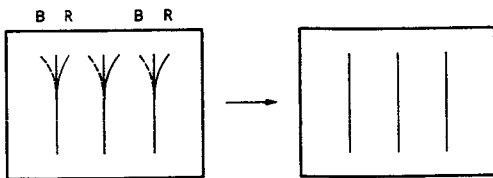
(2) Dynamic Convergence Circuit Adjustment

- Set to Service Mode.
- Input a cross-hatch signal.
- Press [1] and [4] select an item of adjustments.
- Adjust [3] and [6] to the best picture.

ITME	NAME REGISTER	
UYBO	VP	U. YBOW
LYBO	VP	L. YBOW
HAMP	VP	H. AMP
HTILT	VP	H. TILT
UCBO	VP	U. CBOW
UTIL	VP	U. TILT
LCBO	VP	L. CBOW
LTIL	VP	L. TILT
DCSH	VP	DC. SHIFT

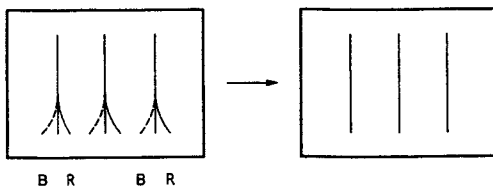
U. YBOW

Select UYBO with [1] and [4]



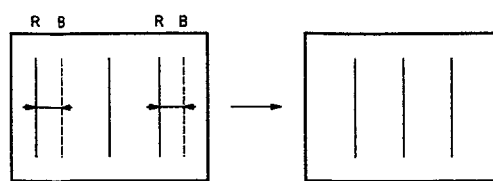
L. YBOW

Select LYBO with [1] and [4]



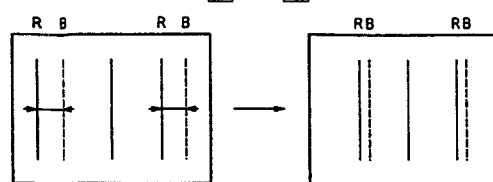
H. AMP

Select HAMP with [1] and [4]



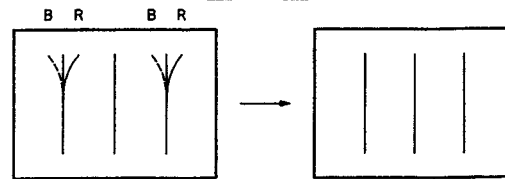
H. TILT

Select HTILT with [1] and [4]



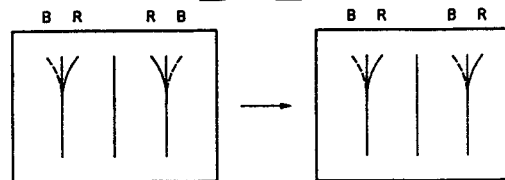
U. CBOW

Select UCBO with [1] and [4]



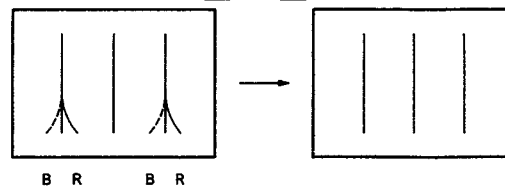
U. TILT

Select UTIL with [1] and [4]



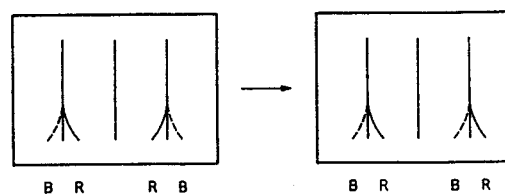
L. CBOW

Select LCBO with [1] and [4]



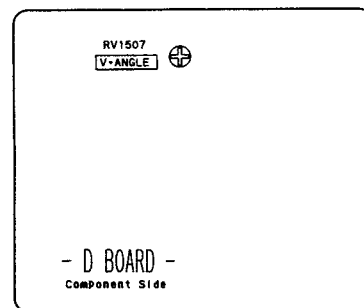
L. TILH

Select L. TIL with [1] and [4]



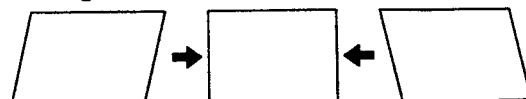
DC. SHIFT

1. Select DCSH with [1] and [4]
2. Set the data to "19" with [3] and [6]

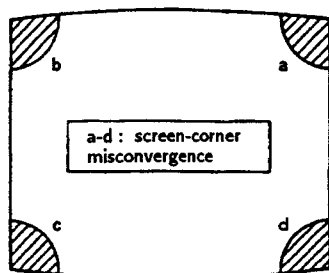


V-ANGLE ADJUSTMENT (RV1507)

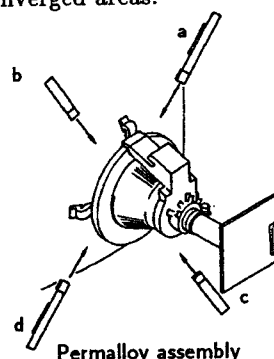
1. Receive cross-hatch signal.
2. Adjust RV1507, so that the central vertical line of screen is straight.



(3) Screen-corner Convergence



Affix a Permalloy ass'y corresponding to the misconverged areas.



Permalloy assembly

3-3. FOCUS

1. Tune in an off-air signal.
2. PICTURE → control to 80%.
3. Adjust the focus VR on A board so that the focus at the center of the screen is optimum.

(A magenta ring will appear if the focus is adjusted only in the center of the screen.
Adjust evenly throughout the entire screen.)

3-4. G2. WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT(RV701)

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Confirm G1 voltage is within $30.0 \pm 5V$.
- 3) Apply DC voltage of 180V to the cathodes of R, G and B from DC stabilized power source.
- 4) While watching the picture, adjust the G2 control (RV701) to the just the retrace line disappears.

2. WHITE BALANCE ADJUSTMENT

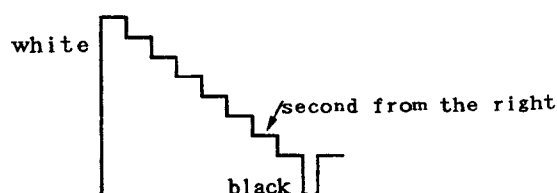
(Using the Remote Commander)

- 1) Set to service mode.
- 2) Press **VIDEO** → **RESET** to normal and if necessarys "TRINITRON" set to "LOW" by **+** or **-**.
- 3) Input an entire white signal.
- 4) Set the PICTURE to minimum.
- 5) Select S BRT with **1** and **4**, and then set the level to minimum with **3** and **6**.
- 6) Select G CUT and B CUT with **1** and **4**.
And adjust the level with **3** and **6** for the best white balance.
- 7) Set the PICTURE to maximum.
- 8) Select G AMP and B AMP with 1 and 4, and adjust the level with **3** and **6** for the best white balance.

3. SUB BRIGHT ADJUSTMENT

(Using the Remote Commander)

- 1) Set to service mode.
- 2) Input a staircase signal of black and white from the pattern generator.
- 3) BRIGHTNESS ... RESET
PICTURE minimum
- 4) Select S BRT with **1** and **4**, and adjust SUB BRIGHT level with **3** and **6** so that the stripe second from the right is dimly lit.



SECTION 4 SAFETY RELATED ADJUSTMENTS

☒ R549 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ☒ on the schematic diagram).
IC301, PM501, R549, R564, R509 (A board)

①

1. Preparation before confirmation

- 1) Remove R663 on the G board and connect a variable resistor (RV1: about $10k\Omega$) between pin ① of IC653 and B+ line.
- 2) Supply $120 \pm 2.0V$ AC to with variable auto-transformer.

2. Hold-down operation confirmation

- 1) Turn the POWER switch ON, and receive entirely white signals and adjust ABL current to $1650 \pm 20 \mu A$ with PICTURE and BRIGHT etc controls.
- 2) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than $142.0V$ DC whereby the raster disappears during operation of hold-down circuit.

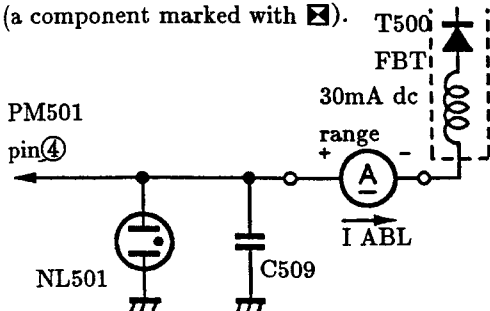
NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

- 3) Turn the POWER switch ON, and receive dot signals and adjust ABL current to $150 \pm 20 \mu A$ with PICTURE and BRIGHT etc controls.
- 4) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than $144.5V$ DC whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

3. Hold-down readjustment

When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R549 (a component marked with ☒).



☒ R567 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ☒ on the schematic diagram).
IC301, IC653, PM501, D539, C556, R509, R556, R564, R567, R663, T500 (A board)

②

1. Preparation before confirmation

- 1) Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHT controls to maximum.
- 2) Confirm that voltage of the check terminal of TP-PROT is more than $122V$ DC when the set is operating normally with $120.0 \pm 2.0V$ AC supply.

2. Hold-down operation confirmation

- 1) Turn the POWER switch ON, and receive entirely white signals and adjust ABL current to $1650 \pm 20 \mu A$ with PICTURE and BRIGHT etc controls.
- 2) Apply DC voltage of over $130V$ DC gradually to the check terminal of TP-PROT via 1T40 from the DC stabilized power source.

Confirm that the minimum voltage is less than $145.0V$ DC whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

- 3) Turn the POWER switch ON, and receive dot signals and adjust ABL current to $150 \pm 20 \mu A$ with PICTURE and BRIGHT etc controls.
- 4) Apply DC voltage of over $130V$ gradually to the check terminal of TP-PROT via 1T40 from the DC stabilized power source.

Confirm that the minimum voltage is less than $145.0V$ DC whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

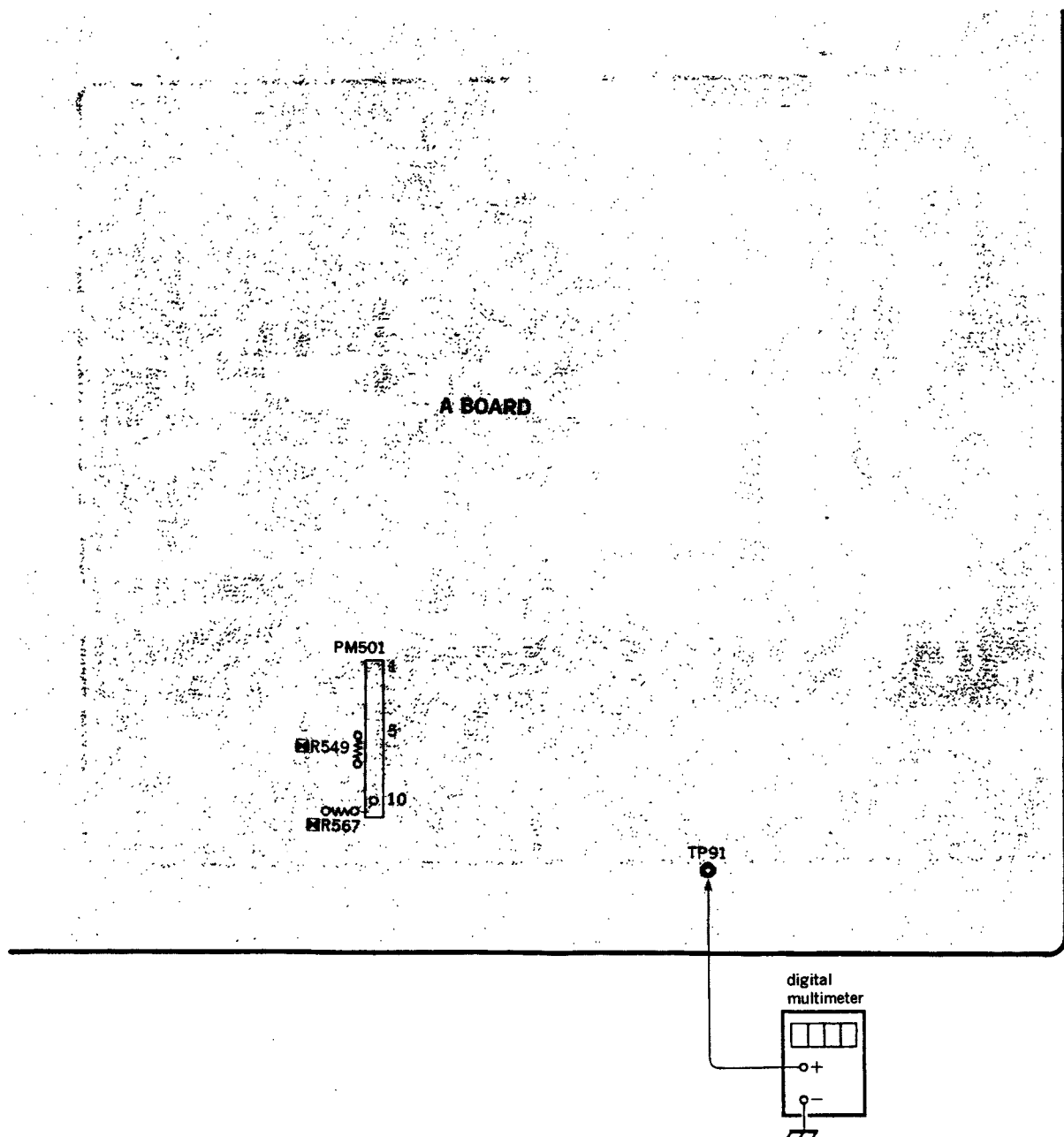
3. Hold-down readjustment

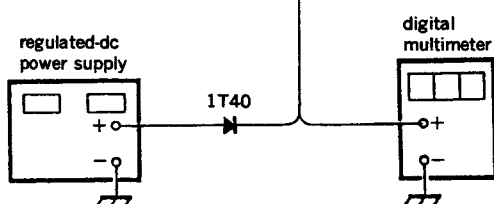
When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R567 (a component marked with ☒).

B+ VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC653 and R663.

- 1) Supply 130 ± 1.0 V AC to with variable auto-transformer.
- 2) Receive entirely monoscope signal.
- 3) Set the PICTURE control and the BRIGHT controls in to initial reset.
- 4) Confirm the voltage of TP91 is less than 137.0V DC.
- 5) If step 4) is not satisfied, replace IC653 and R663 repeat above steps.





SECTION 5 CIRCUIT ADJUSTMENTS

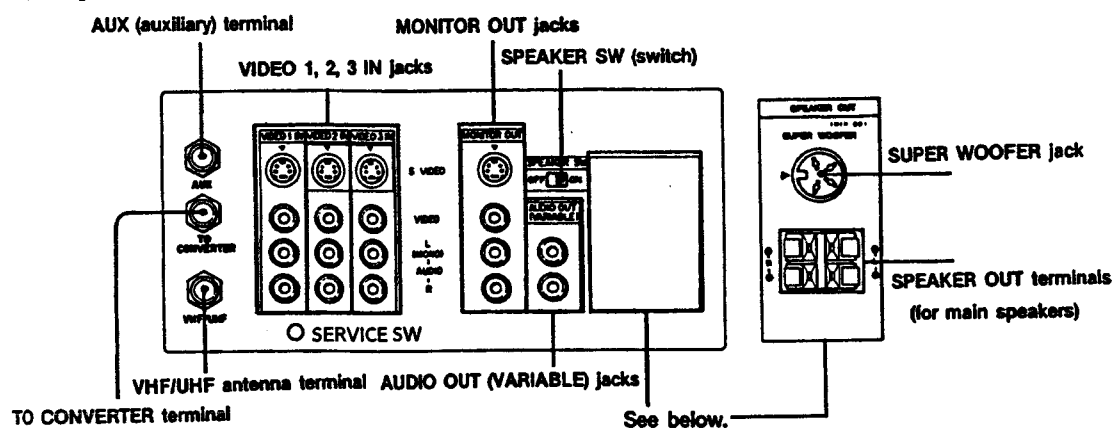
5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

Use of Remote Commander (RM-Y106, Y107) can be performed all circuit adjustments about this model.

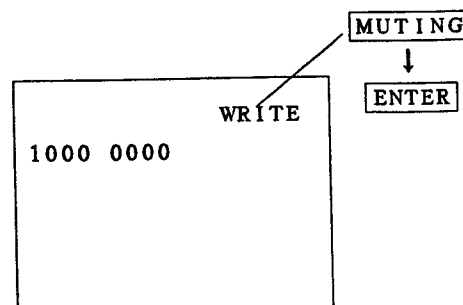
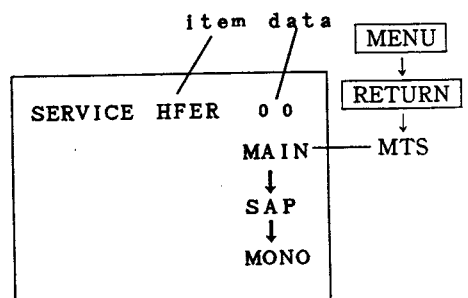
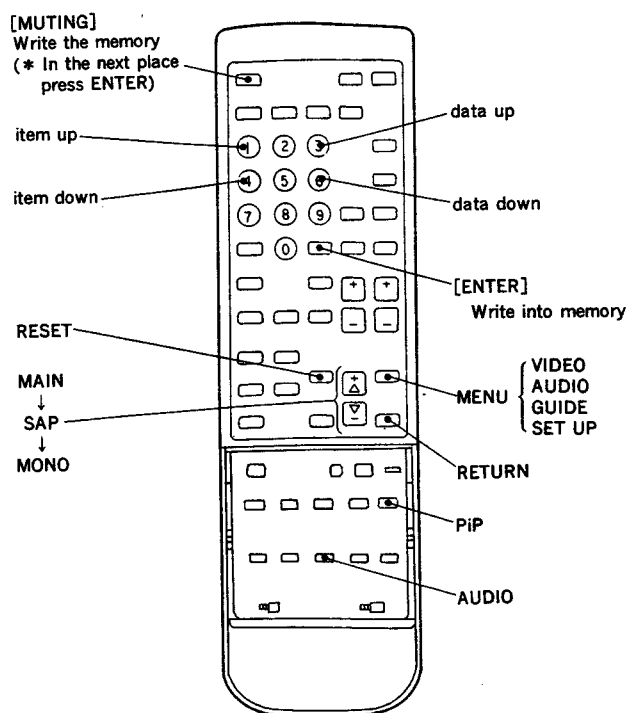
【 BASIC ADJUSTMENTS 】

1. METHOD OF SETTING THE SERVICE MODE

- 1) Press **POWER** button on the Remote Commander while pressing switch on the rear of the set.



2. ADJUST BUTTONS AND INDICATOR



3. AN ITEM OF ADJUSTMENT

ITEM	NAME REGISTER	
HFRE	VP	H-FREQUENCY 1
VFER	VP	V-FREQUENCY 1
VPOS	VP	V-SHIFT
VSIZ	VP	V-SIZE
VLIN	VP	V-LINEARITY
VSCO	VP	S-CORRECTION
HPOS	VP	H-PHASE
HSIZ	VP	H-SIZE
PAMP	VP	PIN AMP.
CPIN	VP	CORNER PIN
PPHA	VP	PIN PHASE
VCOM	VP	V-COMP
GAMP	VP	GREEN AMP.
BAMP	VP	BLUE AMP.
GCUT	VP	GREEN CUT OFF.
BCUT	VP	BLUE CUTOFF
CROM	VP	CHROMA TRAP
SPIX	VP	PICTURE
SHUE	VP	HUE
SCOL	VP	COLOR
SBRT	VP	BRIGHT
RGBP	VP	RGB PICTURE
MPX	AP	ATT
FILO	AP	I1
DEEM	AP	I2
STEV	AP	OSC 1
SAPV	AP	OSC 2
PILO	AP	PILOT
SEP	AP	WIDE BAND
VD	AP	SPECTRAL
LVOL	AP	VOLUME-L
RVOL	AP	VOLUME-R
SHAR	VP	SHARPNESS
DISP		③PWM OUTPUT

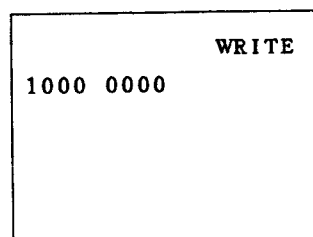
4. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press **POWER** button on the commander) in the next place, press **POWER** button again, hereupon it becomes TV mode.

5. METHOD OF WRITE FOR MEMORY

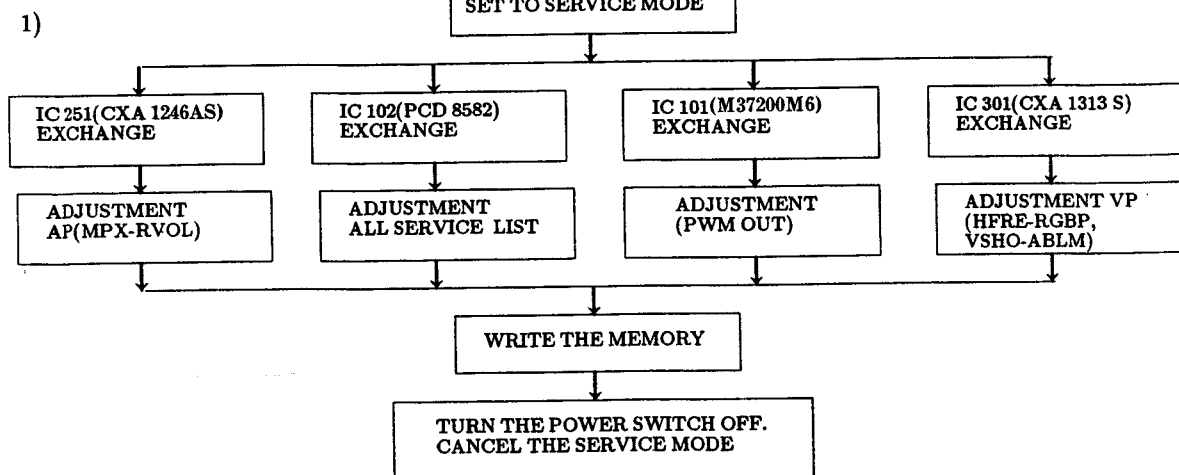
- 1) Set to Service Mode.
- 2) Press **1** (UP) and **4** (DOWN), select an item of adjustments.
- 3) Press **MUTING** button indicate WRITE (RED) on screen.
- 4) Press **ENTER** button to write for memory. (At this time WRITE (YELLOW) is indicated on screen.)

6. MEMORY WRITE CONFIRMATION METHOD



- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.

7. ADJUSTMENT WHEN REPLACING IC



NOTE : If service mode is canceled before writing into memory, the adjustment data is not recorded.
Please write into memory, after adjustment.

- 2) The following initial setting should always be performed when replacing the IC 102 (PCD 8582).

ITEM	NAME REGISTER		ADJUSTMENT
VSOM	VP	VSMO	0
AFC	VP	AFC 1.0	0
REF	VP	REF 1.0	2
ROFF	VP	OFF NR	1
G OFF	VP	OFF NG	1
BOFF	VP	OFF NB	1
ABLM	VP	ABLM	1
TEST	AP	T	0
DRGB	VP	DRGB	1

*Please with the memory each items by pressing **MUTING** → and then press **ENTER**.

5-2. CIRCUIT ADJUSTMENT

RF AGC ADJUSTMENT (IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Adjust AGC VR of IF 201 so that snow noise and cross-modulation disappear from the picture.
- 3) Confirm them at every channel.

H. FREQUENCY ADJUSTMENT (HFRE)

- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Connect a frequency counter to base of Q 502.
- 4) Call the item of AFC, set to 3 level (free run).
- 5) Select HFRE with **1** and **4**.
- 6) Adjust **3** and **6** to the 15.735 ± 60 Hz level.
- 7) Call the item of AFC again, adjust the level "00".
- 8) Write into the memory by pressing **MUTING** → then **ENTER**.

V. FREQUENCY ADJUSTMENT (VFRE)

- 1) Set the Service Mode.
- 2) Receive an off-air signal (VIDEO IN → no signal).
- 3) Connect the frequency counter across pin ⑥ of A-81 connector and ground.
- 4) Select VFER with **1** and **4**.
- 5) Adjust **3** and **6** to the 55 ± 1 Hz.
- 6) Write the memory by pressing **MUTING** → then **ENTER**.

CHROMA TRAP ADJUSTMENT (CROM)

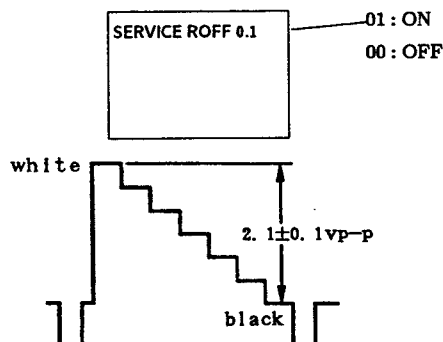
- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Select NOTCH (VIDEO condition), turn ON by pressing **+**. And then set the COLOR VR to maximum setting position and SHARPNESS control to center.
- 4) Connect an oscilloscope to TP47R (R OUT) on C board.
- 5) Select C ROM with **1** and **4**, and then adjust 3.58MHz (CHROMA) ingredient is minimum with **3** and **6**.
- 6) Write into the memory by pressing **MUTING** → then **ENTER**.
- 7) Set NOTCH to OFF, and make normal condition with **VIDEO** → then **RESET**.

SUB CONTRAST ADJUSTMENT (SPIX)

- 1) Set to Service Mode.
- 2) Input a color-bar signal. (75 IRE)
- 3) Set the conditions as follows.

PICTURE MAX
COLOR MIN
R OFF ON
G OFF OFF
B OFF OFF

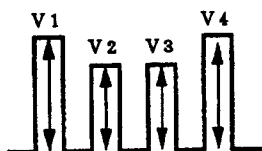
Press **VIDEO** → **-** (L) (It becomes minimum).
Select **3** (ON) and **6** (OFF) with **1** and **4**.



- 4) Connect an oscilloscope to TP47R (R OUT) on C board.
- 5) Adjust **3** and **6** to the 2.1 ± 0.1 Vp-p level by selecting SPIX with **1** and **4**.
- 6) Write the memory by pressing **MUTING** → then **ENTER**.
- 7) Return the following back to normal after adjustment.
G OFF ON
B OFF ON
COLOR CENTER
PICTURE 80%

SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

- 1) Input a color-bar signal.
- 2) Press **VIDEO** → then **RESET** to normal.
- 3) Set to Service Mode.
- 4) Connect an oscilloscope to TP47B (B OUT) on C board.
- 5) Adjust **3** and **4** to the $V1=V4$ and $V2=V3$ by select to SHUE and SCOL with **1** and **4**.



- 6) Write into the memory by pressing **MUTING** → then **ENTER**.

V. SIZE ADJUSTMENT (VSIZ)

- 1) Set to Service Mode.
- 2) Input a cross-hatch signal.
- 3) Adjust **3** and **6** to the best vertical size by selecting VSIZ with **1** and **4**.
- 4) Write into the memory by pressing **MUTING** → then **ENTER**.

H. SIZE ADJUSTMENT (HSIZ)

- 1) Input a cross-hatch signal.
- 2) Press **VIDEO** → then **RESET** to normal.
- 3) Set to Service Mode.
- 4) Adjust **3** and **6** to best horizontal size by selecting HSIZ with **1** and **4**.
- 5) Write into the memory by pressing **MUTING** → then **ENTER**.

H. CENTER ADJUSTMENT (HPOS)

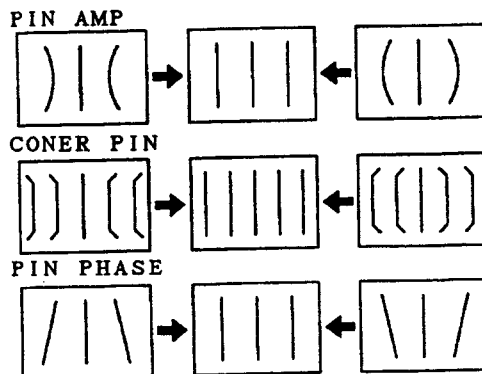
Note : Perform this adjustment after H.FREQ adjustment.

- 1) Input a cross-hatch signal.
- 2) Press **VIDEO** → then **RESET** to normal.
- 3) Set to Service Mode.
- 4) Select HPOS with **1** and **4**.
- 5) Adjust **3** and **6** to the best picture.
- 6) Write into the memory by pressing **MUTING** → then **ENTER**.



PIN AMP, CORNER PIN AND PIN PHASE ADJUSTMENT

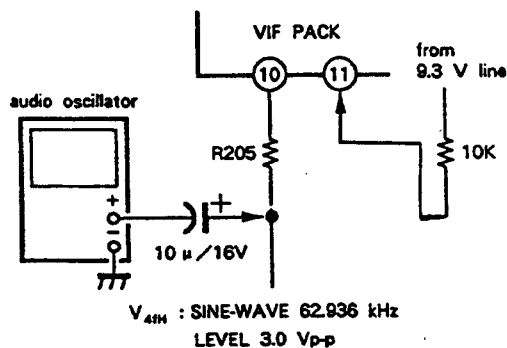
- 1) Input a cross-hatch signal.
- 2) Press **VIDEO** → then **RESET** to normal.
- 3) Set to Service Mode.
- 4) Select PAMP, CPIN and PPHA with **1** and **4**.
- 5) Adjust **3** and **6** to the best picture.



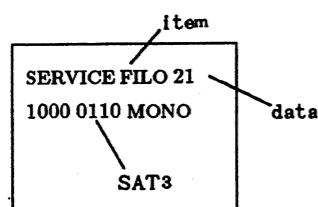
- 6) Write the memory by **MUTING** → **ENTER**.

FILTER ADJUSTMENT (MPX FIOL)

- 1) Set to Service Mode.
- 2) Select to **TEST** with **1** and **4**, set the data to "1". Then select MPX and change data to "08".
- 3) Connect an audio oscillator to R205 using electrolytic capacitor (10 μ F/16V), set frequency to 62.936kHz.

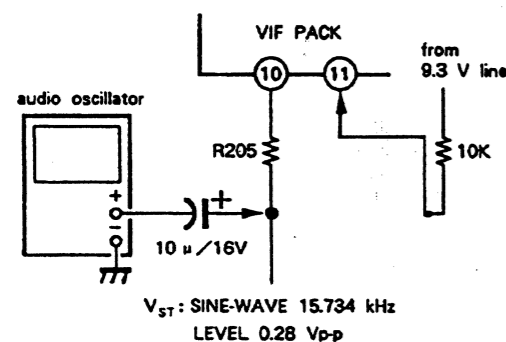


- 4) Make the data "00" by selecting FILO with **1** and **4**.
And then, send up the data gradually by pressing **6**.
Set the data to D1 before SAT3 changing to 1 from 0.
- 5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.
- 6) Adjust the data of FIOL to $\frac{D1 + D2}{2}$.
- 7) Write into the memory by pressing **MUTING** → then **ENTER**.

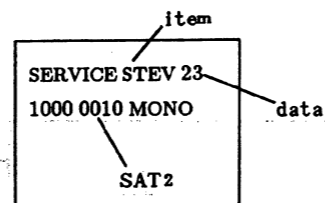


ST VCO ADJUSTMENT (MPX STEV)

- 1) Set to Service Mode.
- 2) Select TEST with **1** and **4**, set the data to "1".
And then press **MTS** to MONO.
- 3) Select MPX, set the data "8".
- 4) Connect an audio oscillator to R205 using electrolytic capacitor (10μF/16V) and apply the frequency V_{ST} .



- 5) Select STEV with **1** and **4**, set the data to "00" with **6**. And then, send up the data gradually. Set the data to D1 before SAT2 changes from 0 to 1.
- 6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.
- 7) Adjust the data of STEV to $\frac{D1 + D2}{2}$.
- 8) Write into the memory by pressing **MUTING** → then **ENTER**.



MPX IN LEVEL ADJUSTMENT (MPX)

- 1) Set to Service Mode.
- 2) Select TEST with **1** and **4**, set the data to "0" with **6**. And then press **MTS** to MONO.
- 3) Select MPX with **1** and **4**, set the data to "08" with **3** and **6**.
- 4) Write into the memory by pressing **MUTING** → then **ENTER**.

PILOT CANCEL ADJUSTMENT (PILO)

- 1) Set to the Service Mode.
- 2) Select TEST with **1** and **4**, set the data to "0" with **6**. And then press **MTS** to MAIN.
- 3) Select PILO with **1** and **4**, set the data to "08" with **3** and **6**.
- 4) Write into the memory by pressing **MUTING** → then **ENTER**.

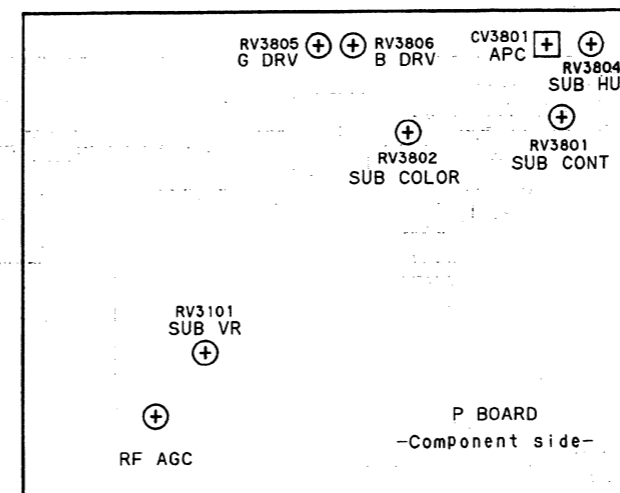
SAP VCO for ADJUSTMENT (SAPV)

- 1) Set to Service Mode.
- 2) Receive a stereo broadcast signal with SAP.
- 3) Select TEST with **1** and **4**, set to the data to "0".
And then, press to **MTS** to MAIN.
- 4) Connect a digital multimeter to pin ① of A-23 connector. This voltage reading will equal V1.
- 5) Press MTS to SAP and this voltage will equal V2.
- 6) Select SAPV with **1** and **4**, adjust **3** and **6** so that $V2 = V1 \pm 0.03$ VDC.
- 7) Write the memory by **MUTING** → **ENTER**.

SEPARATION ADJUSTMENT (SEP)

- 1) Set to Service Mode.
- 2) Press **MTS** to MAIN and receive a monoral broadcast signal.
In the next step, receive a stereo broadcast signal.
- 3) Select SEP and VD with **1** and **4**, adjust **3** and **6** so that a clear stereo sound is effected.

P BOARD ADJUSTMENT

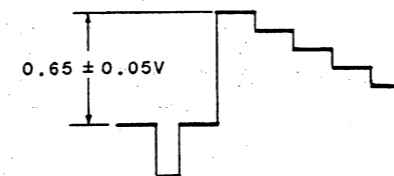


RF AGC ADJUSTMENT (IF BLOCK VR)

- 1) Receive a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Adjust AGC VR of IF3201 so that snow noise and cross-modulation disappear from the picture.
- 4) Confirm them at every channel.

SUB CONTRAST ADJUSTMENT (RV3801)

- 1) Receive a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Observe signal at pin ⑤ (Y OUT) of P-3 connector an oscilloscope.
- 4) Adjust RV3801 (SUB CONT) so that the signal level between white and pedestal becomes 0.65 ± 0.05 V as shown.

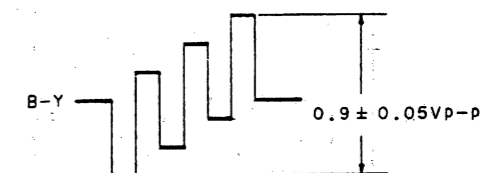


APC ADJUSTMENT (CV3801)

- 1) Set to PICTURE IN PICTURE mode.
- 2) Short circuit between pin ③ of IC3803 and ground with a jumper wire.
- 3) connect a frequency counter to pin ④ of IC3803.
- 4) Adjust CV3801 to obtain $3,579,545 \pm 40$ Hz.

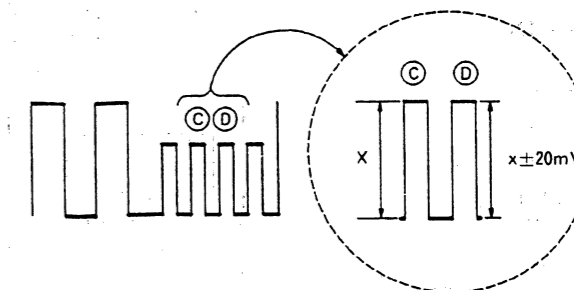
SUB COLOR ADJUSTMENT (RV3802)

- 1) Receive a color-bar signal
- 2) Set to PICTURE IN PICTURE mode.
- 3) COLOR.....RESET
HUE.....center
- 4) Connect an oscilloscope to pin ⑦ of P-3 connector.
- 5) Adjust RV3802 so that voltage is 0.9 ± 0.05 Vp-p.



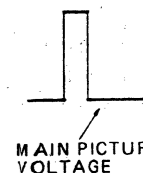
SUB HUE ADJUSTMENT (RV3804)

- 1) Receive a color-bar signal
- 2) Set to PICTURE IN PICTURE mode. (1/4 SIZE)
- 3) PICTURE.....80%
BRIGHT.....center
COLOR.....center
HUE.....RESET
- 4) Connect an oscilloscope to pin ⑤ of P-32 connector.
- 5) Adjust RV3804 so that the ③ coincides with ⑤ as shown in figure.



WHITE B.

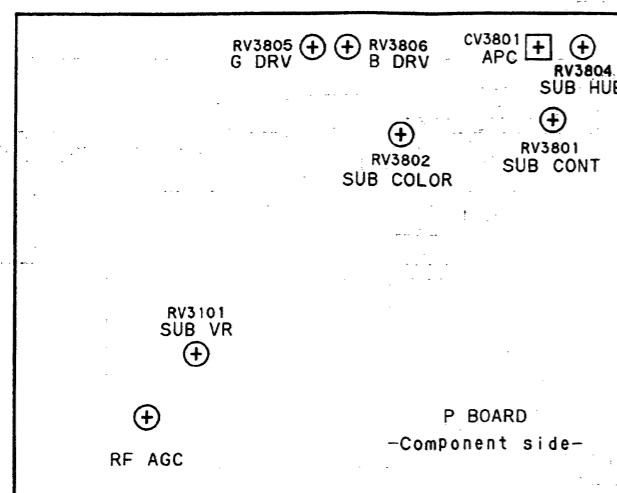
- 1) Adjust i main pic
- 2) Set to P
- 3) PICTUF BRIGHT TORINI
- 4) Receive picture e
- 5) Connect confirm and mai
- 6) Connect adjust R sub pict main pic
- 7) Connect adjust R sub pict main pic



SUB AUC

- 1) Receive
- 2) Set to P
- 3) Select si commar
- 4) Adjust picture picture.

P BOARD ADJUSTMENT

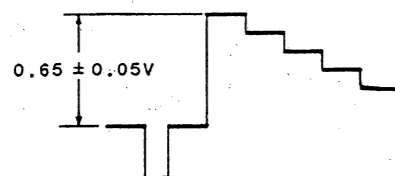


RF AGC ADJUSTMENT (IF BLOCK VR)

- 1) Receive a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Adjust AGC VR of IF3201 so that snow noise and cross-modulation disappear from the picture.
- 4) Confirm them at every channel.

SUB CONTRAST ADJUSTMENT (RV3801)

- 1) Receive a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Observe signal at pin ⑤ (Y OUT) of P-3 connector on an oscilloscope.
- 4) Adjust RV3801 (SUB CONT) so that the signal level between white and pedestal becomes $0.65 \pm 0.05V$ as shown.

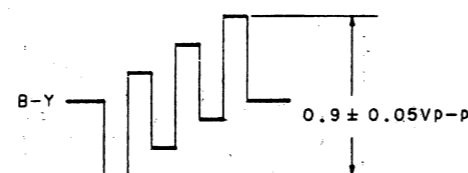


APC ADJUSTMENT (CV3801)

- 1) Set to PICTURE IN PICTURE mode.
- 2) Short circuit between pin ② of IC3803 and ground with a jumper wire.
- 3) Connect a frequency counter to pin ④ of IC3803.
- 4) Adjust CV3801 to obtain $3,579,545 \pm 40Hz$.

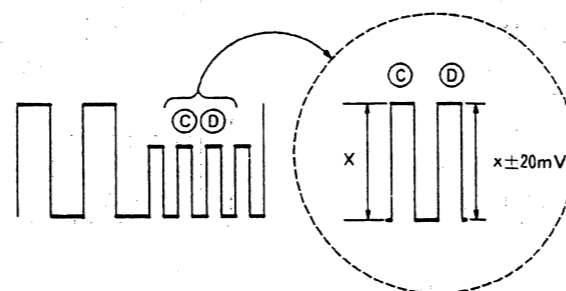
SUB COLOR ADJUSTMENT (RV3802)

- 1) Receive a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) COLOR.....RESET
HUE.....center
- 4) Connect an oscilloscope to pin ⑦ of P-3 connector.
- 5) Adjust RV3802 so that voltage is $0.9 \pm 0.05V_{p-p}$.



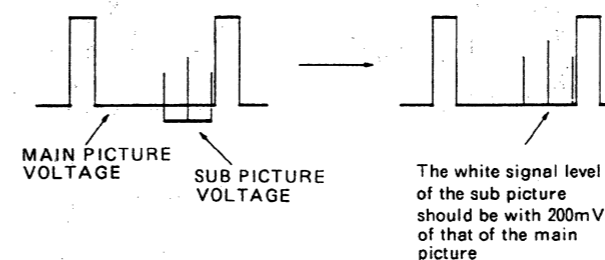
SUB HUE ADJUSTMENT (RV3804)

- 1) Receive a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode. (1/4 SIZE)
- 3) PICTURE.....80%
BRIGHT.....center
COLOR.....center
HUE.....RESET
- 4) Connect an oscilloscope to pin ⑤ of P-32 connector.
- 5) Adjust RV3804 so that the ③ coincides with ② as shown in figure.



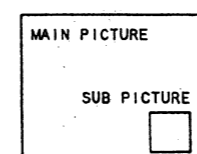
WHITE BALANCE (sub picture)

- 1) Adjust it after WHITE BALANCE adjusted of main picture.
- 2) Set to PICTURE IN PICTURE mode. (1/4 SIZE)
- 3) PICTURE.....maximum
BRIGHT.....maximum
TORINITONE.....low
- 4) Receive the white signal with both the main picture and the sub picture.
- 5) Connect an oscilloscope to KR of C BOARD and confirm that the white signal levels of sub picture and main picture are the same.
- 6) Connect the oscilloscope to KG of C BOARD and adjust RV1805 so that the white signal level of the sub picture matches the white signal level of the main picture.
- 7) Connect the oscilloscope to KB of C BOARD and adjust RV1806 so that the white signal level of the sub picture matches the white signal level of the main picture.

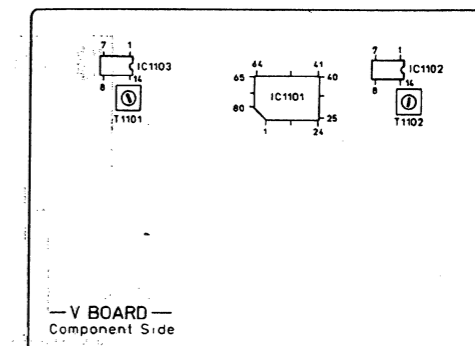


SUB AUDIO ADJUSTMENT (RV3101)

- 1) Receive an off-air signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Select sub picture with press **AUDIO** button on the commander.
- 4) Adjust RV3101 so that the audio level of the sub picture becomes same the audio level of the main picture.



V BOARD ADJUSTMENTS



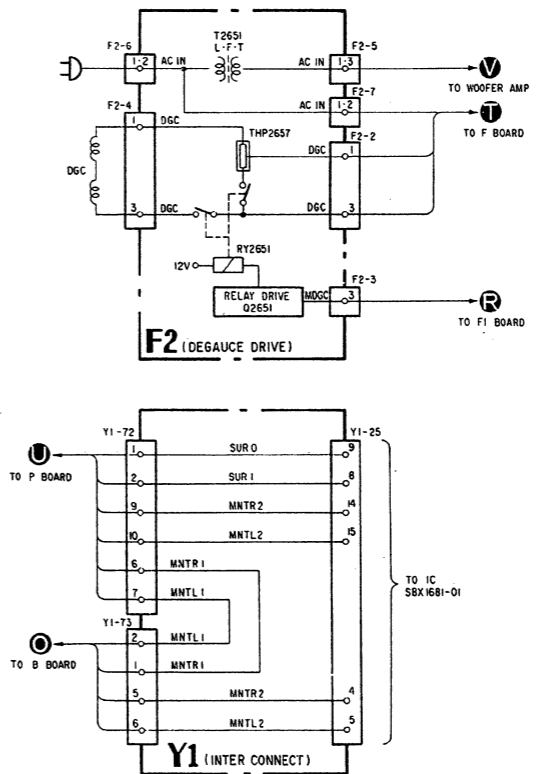
H. FREQ (main picture) (T1101)

- 1) Receive a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Short circuit between the pin ③ of V-2 (HDR) Connector and pin ⑤ of V-1 (5V) connector with a jumper wire.
- 4) Connect a frequency counter to pin ⑦ of V-2 (RGB) connector.
- 5) Adjust T1101 (CLK(P)) for $15.734 kHz \pm 10Hz$.

H. FREQ (sub picture) (T1102)

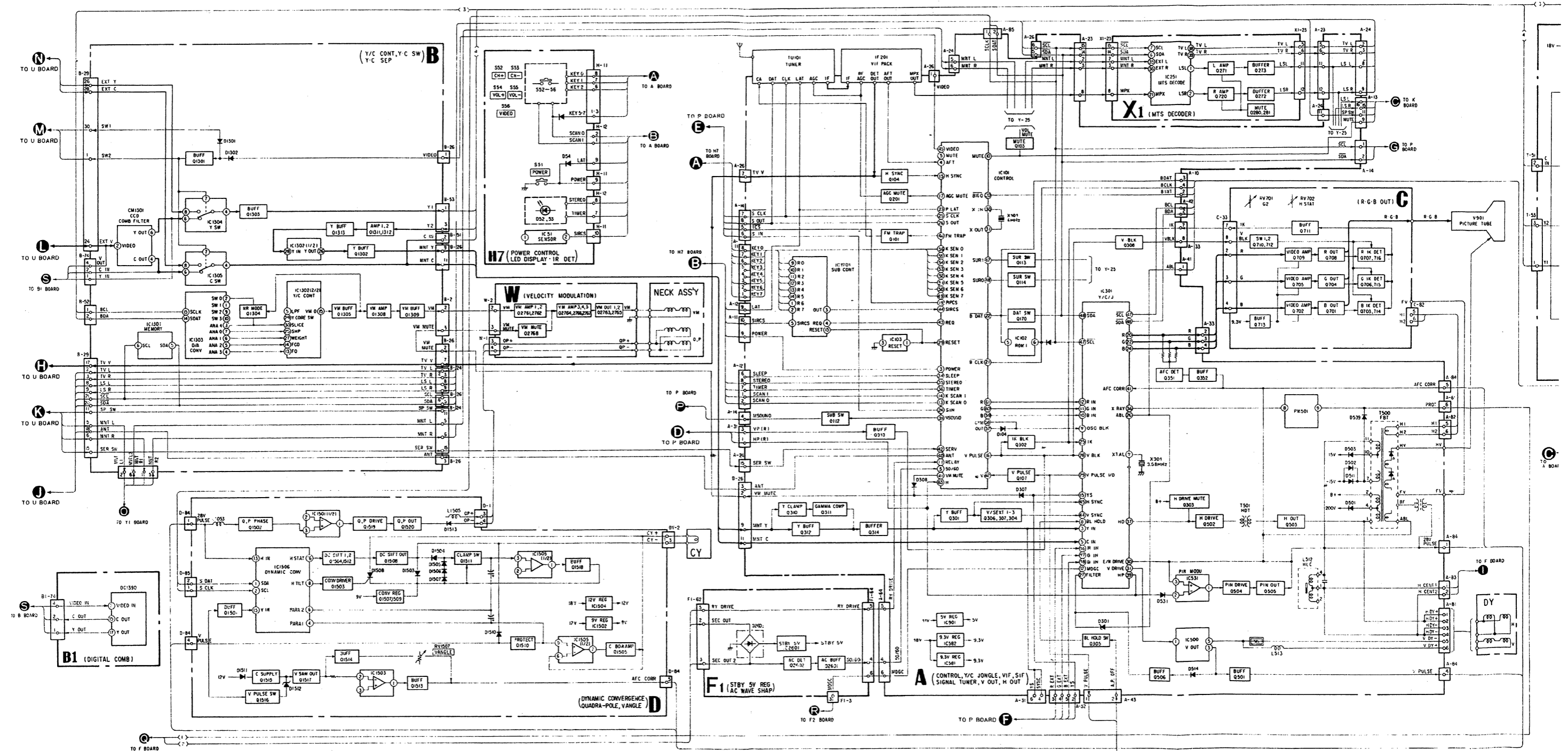
- 1) Receive a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Short circuit between the pin ③ of V-3 (SYNC) connector and pin ⑤ of V-1 (5V) connector with a jumper wire.
- 4) Connect a frequency counter to pin ② of V-3 (HDW) connector.
- 5) Adjust T1102 (CLK(C)) for $15.734 kHz \pm 10Hz$.

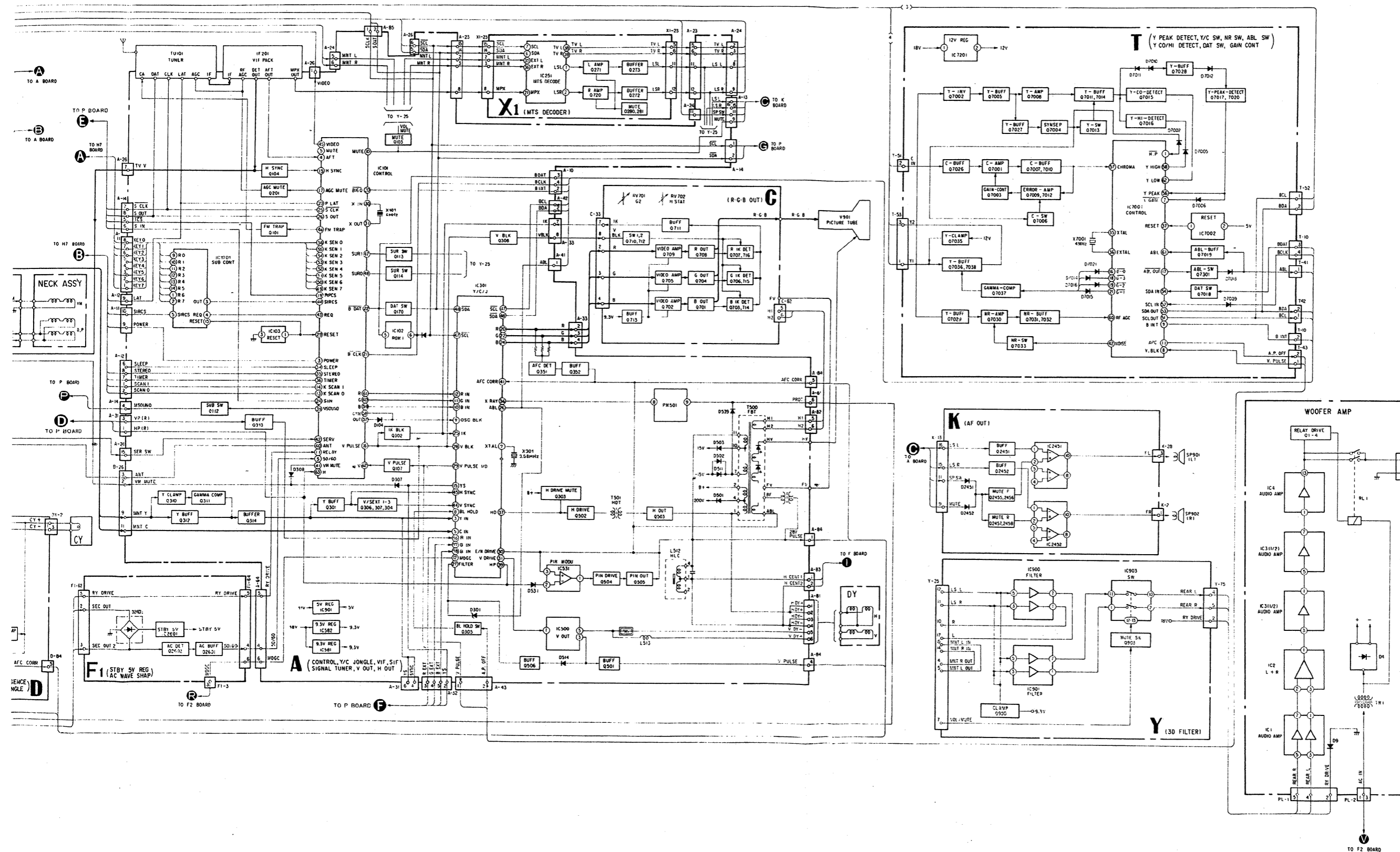
KV-29XBR85
RM-Y108



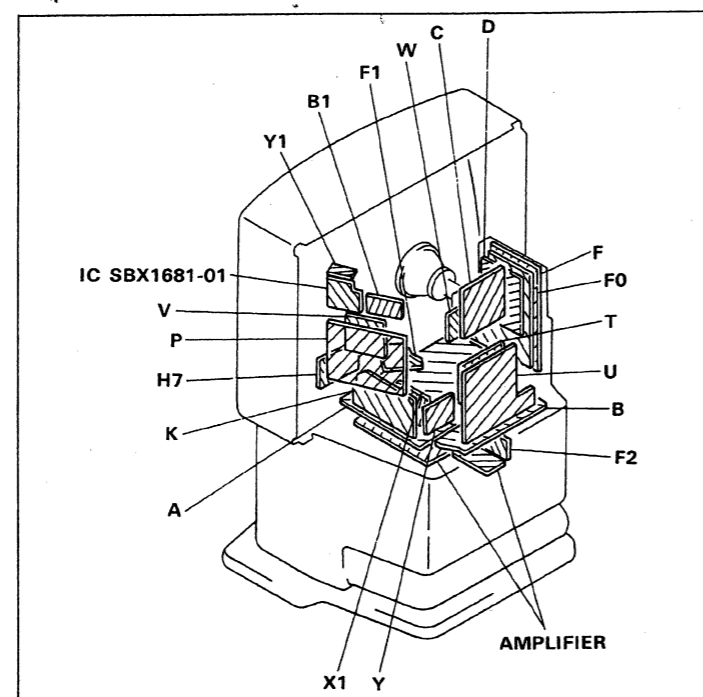
KV-29XBR85
RM-Y108

KV-29XBR85
RM-Y108





6-2. CIRCUIT BOARDS LOCATION



6-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note :

- All capacitors are in μF unless otherwise noted.
 pF : μF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power 1/4W

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R542 and R543 on page 26-27.)
- When replacing the part in below table be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
IC301, PM501, R549, R564	R549 (HOLD-DOWN)
IC301, IC653, PM501, D539, C556, R556, R564, R567, R663, T500, R509	R567 (HOLD-DOWN)

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerance.
- : B+ bus.
- : B- bus.
- : signal path.

Reference information

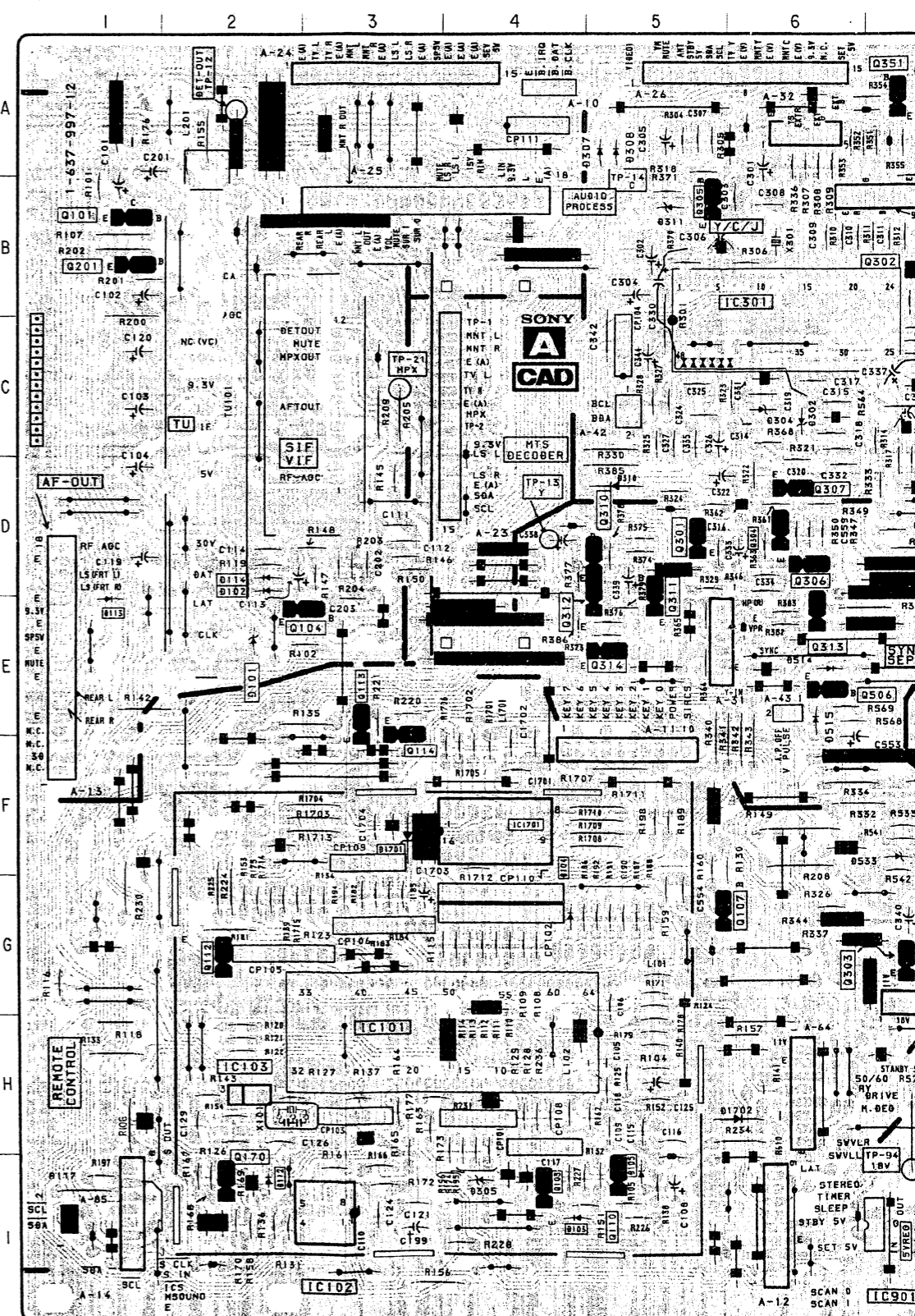
RESISTOR	: RN METAL FILM
	: RC SOLID
	: FPRD NONFLAMMABLE CARBON
	: FUSE NONFLAMMABLE FUSIBLE
	: RW NONFLAMMABLE WIREWOUND
	: RS NONFLAMMABLE METAL OXIDE
	: RB NONFLAMMABLE CEMENT
COIL	: LF-8L MICRO INDUCTOR
CAPACITOR	: TA TANTALUM
	: PS STYROL
	: PP POLYPROPYLENE
	: PT MYLAR
	: MPS METALIZED POLYESTER
	: MPP METALIZED POLYPROPYLENE
	: ALB BIPOLAR
	: ALT HIGH TEMPERATURE
	: ALR HIGH RIPPLE

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

IC		
IC101	H-3	D302 C-6
IC102	I-3	D303 B-7
IC103	H-2	D304 C-6
IC301	B-6	D305 I-4
IC500	E-8	D307 A-5
IC531	I-9	D308 A-5
IC581	G-7	D310 D-5
IC582	I-7	D311 B-5
IC901	I-7	D350 A-7
IC1701	F-4	D500 F-8
		D501 C-9
		D502 B-8
		D503 A-9
		D504 F-8
		D505 C-9
		D506 H-10
		D507 I-10
		D508 H-10
		D509 F-8
		D510 D-9
		D511 B-8
		D512 E-12
		D513 E-8
		D514 E-6
		D515 E-6
		D517 F-8
		D531 F-7
		D533 F-7
		D539 H-8
		D1701 F-3
TRANSISTOR		
Q101	B-1	
Q103	I-4	
Q104	E-3	
Q107	G-6	
Q110	I-5	
Q112	G-2	
Q113	E-3	
Q114	E-3	
Q170	I-2	
Q201	B-1	
Q301	D-5	
Q302	B-7	
Q303	G-7	
Q304	D-6	
Q305	B-5	
Q306	D-6	
Q307	D-6	
Q308	B-7	
Q310	D-5	
Q311	D-5	
Q312	D-5	
Q313	E-6	
Q314	E-5	
Q351	A-7	
Q352	A-7	
Q501	D-8	
Q502	I-12	
Q503	G-12	
Q504	H-10	
Q505	I-10	
Q506	E-6	
DIODE		
D101	E-2	
D102	D-2	
D103	I-4	
D104	G-4	
D105	I-5	
D112	I-2	
D113	D-1	
D114	D-2	
D301	D-7	
TEST POINT		
TP12	A-2	
TP13	D-4	
TP14	A-5	
TP21	C-3	
TP80	I-9	
TP82	E-9	
TP87	D-10	
TP91	I-10	
TP92	A-9	
TP93	B-8	
TP94	I-7	
TP95	B-9	
TP96	I-9	
TP97	C-9	

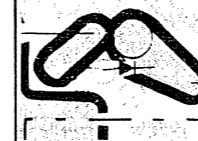
- A Board -



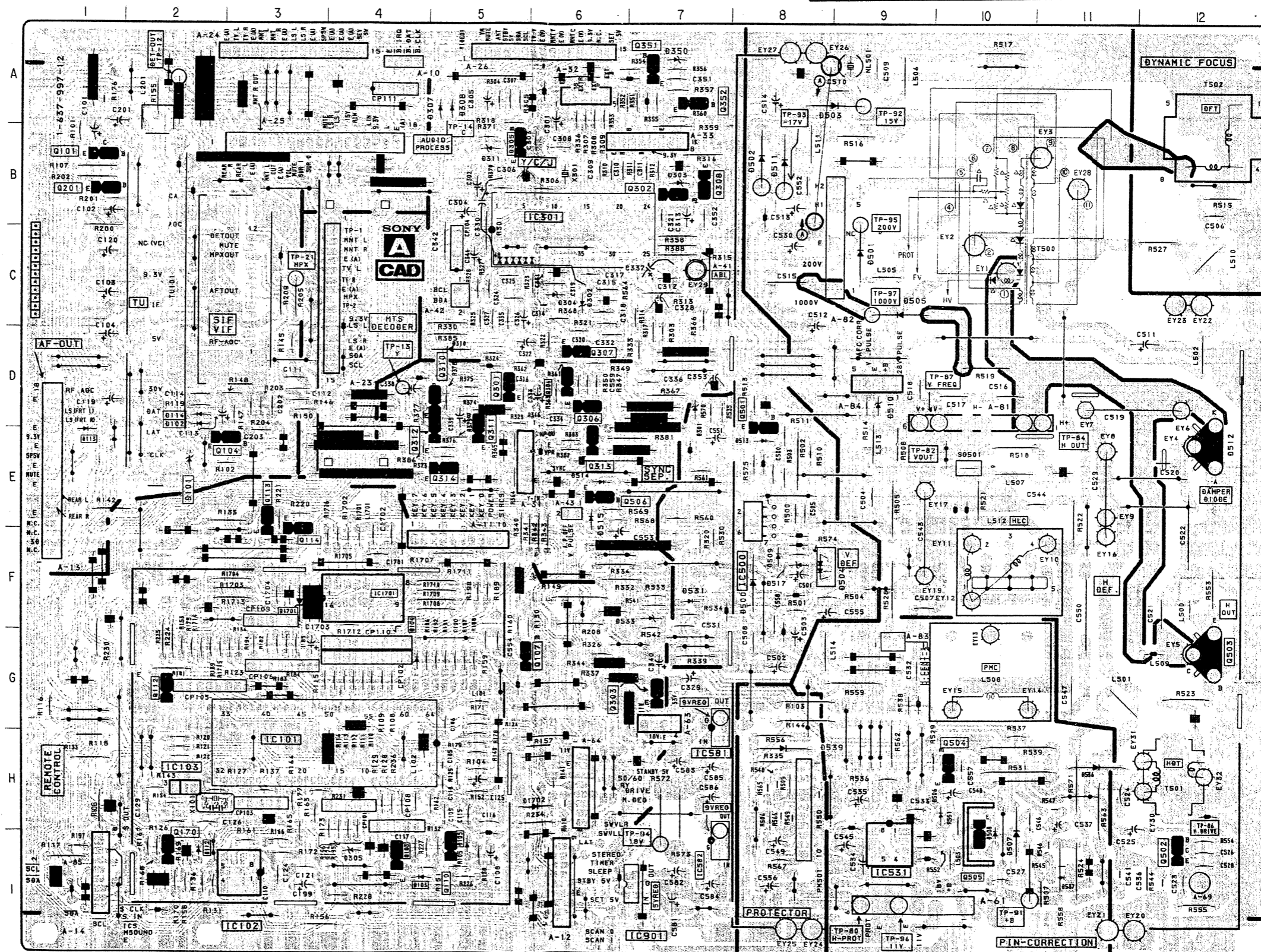
KV-29XBR85
RM-Y108

A

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



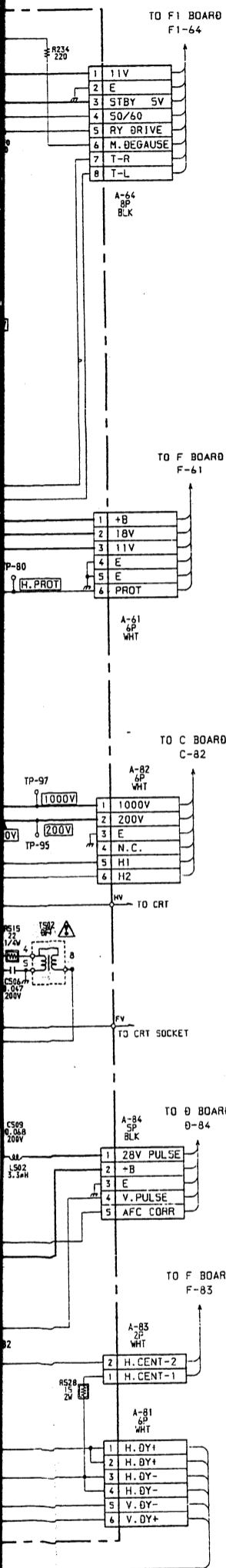
— A Board —



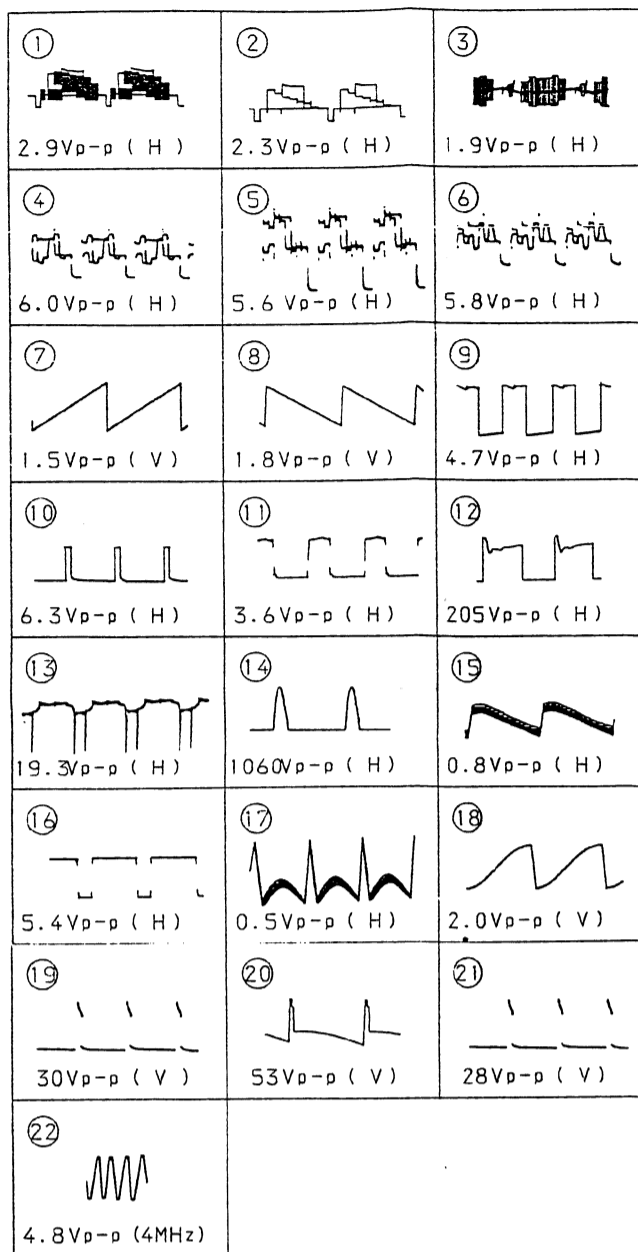
d mark
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uméro

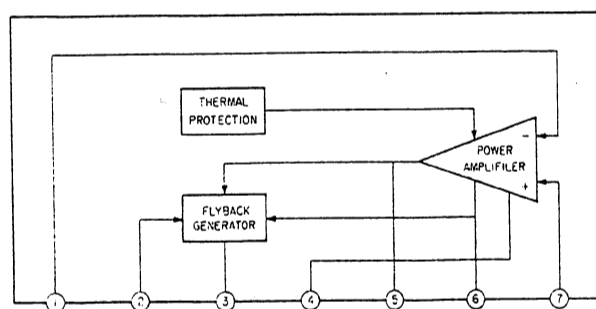
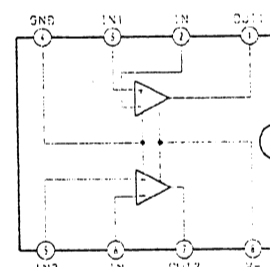


P BOARD
P-63/0

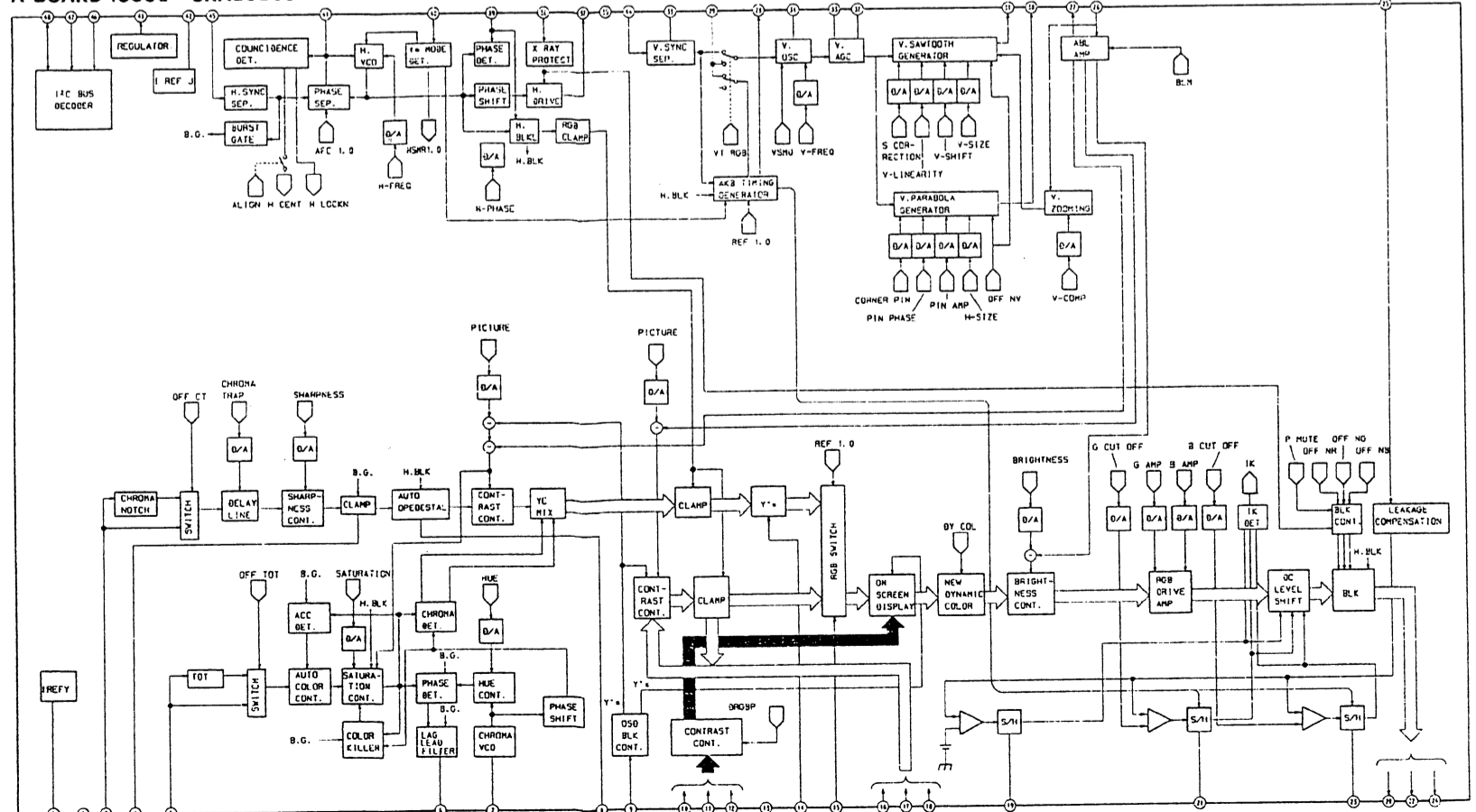
A BOARD



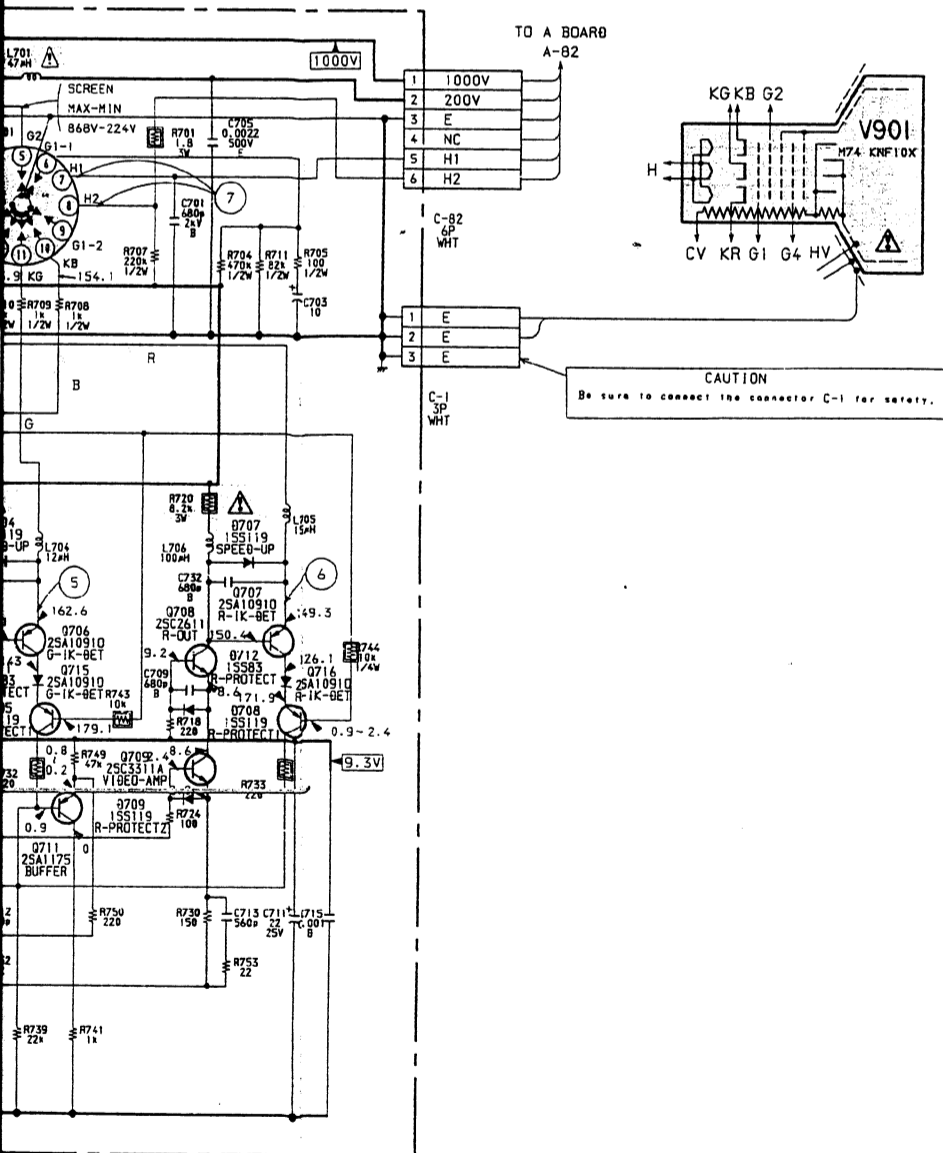
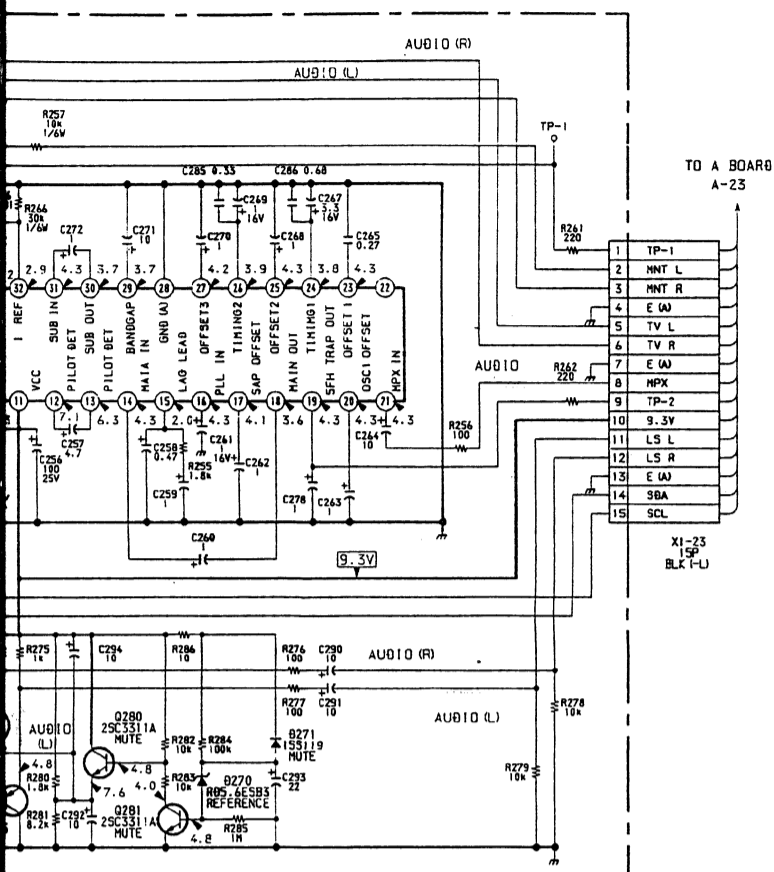
A BOARD IC500 TDA8172

A BOARD IC531 μ PC393C

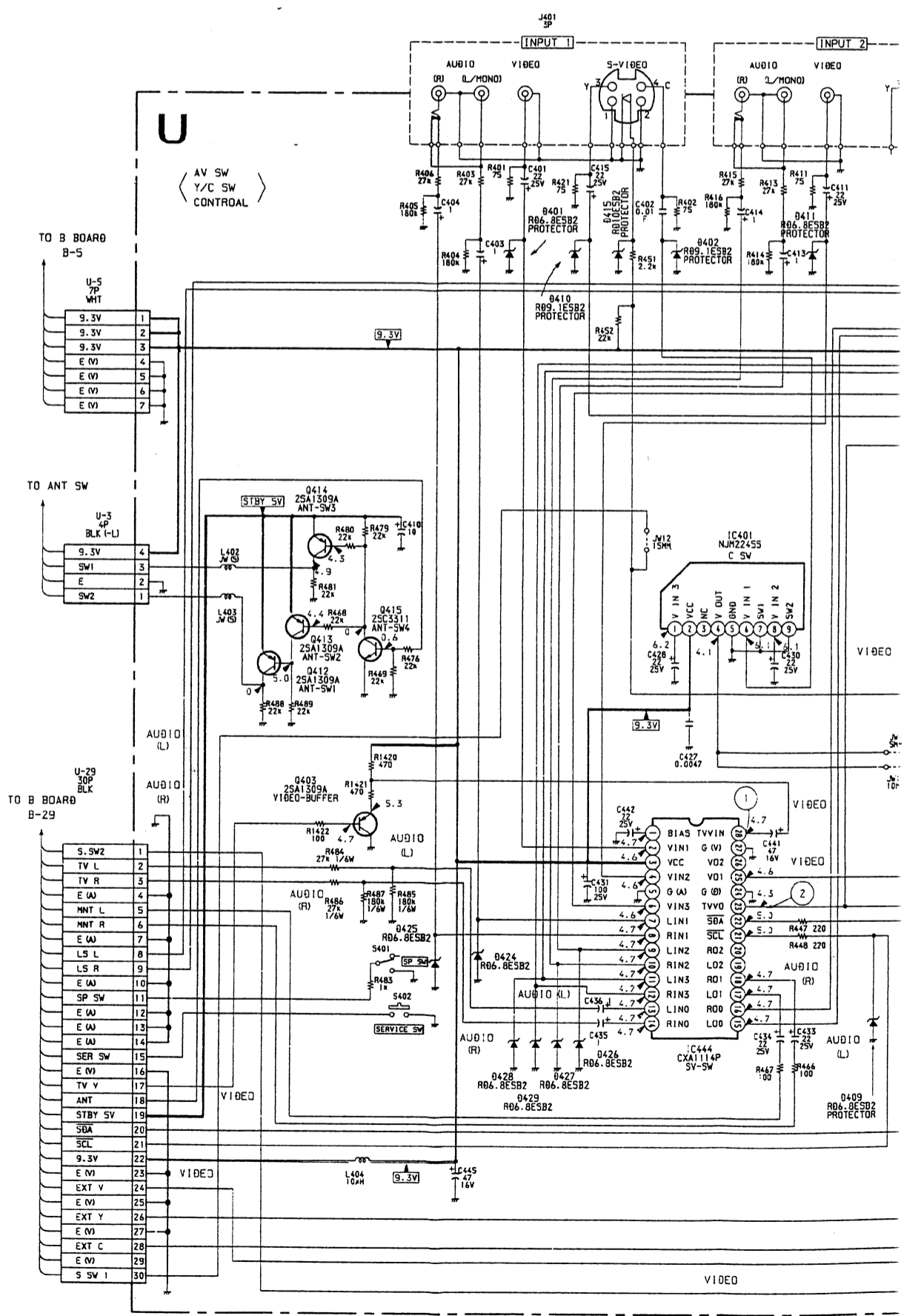
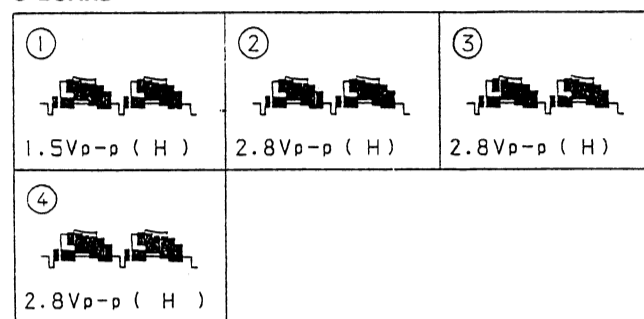
A BOARD IC301 CXA1313S

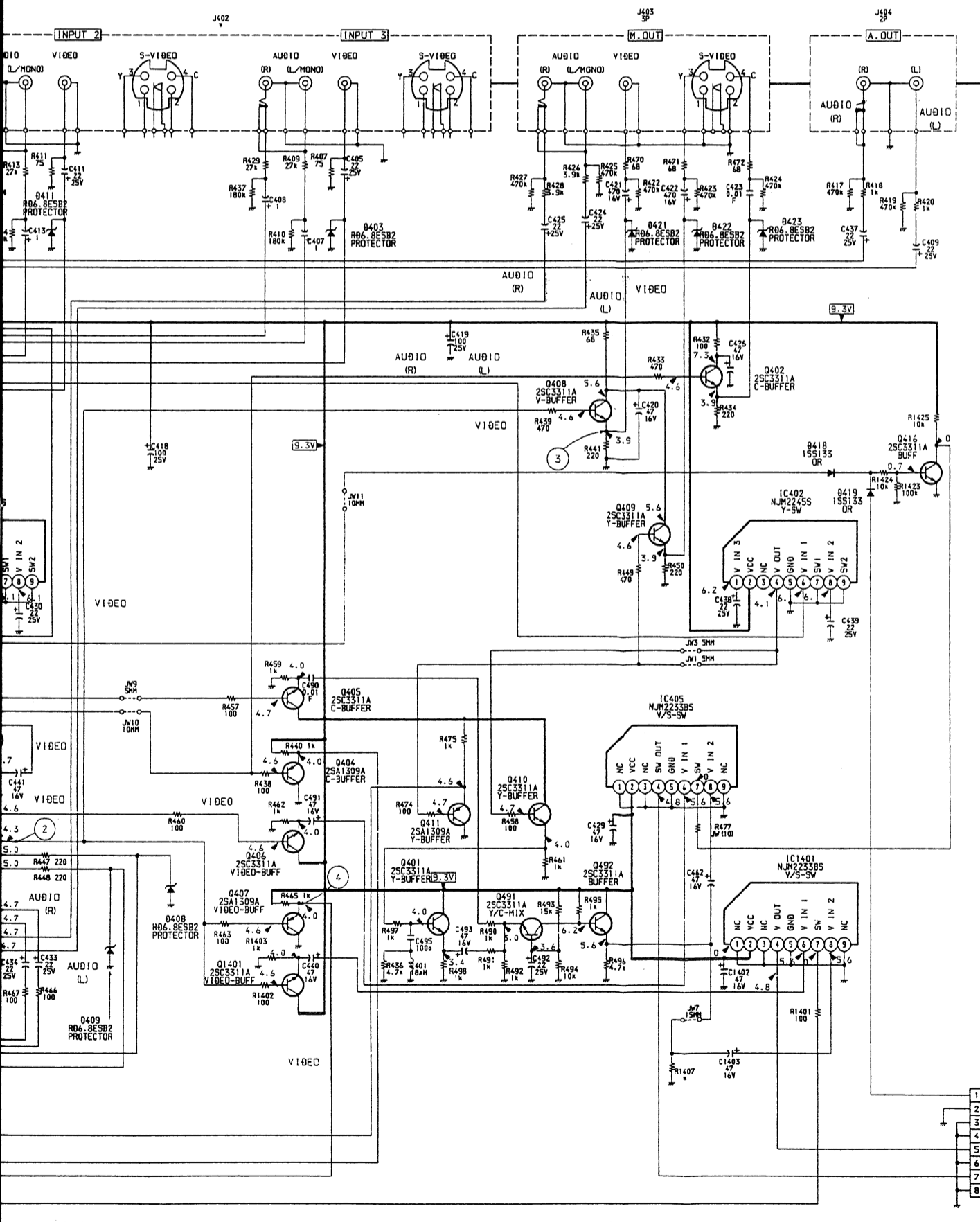




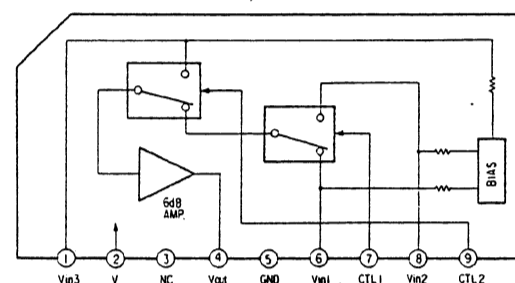


U BOARD

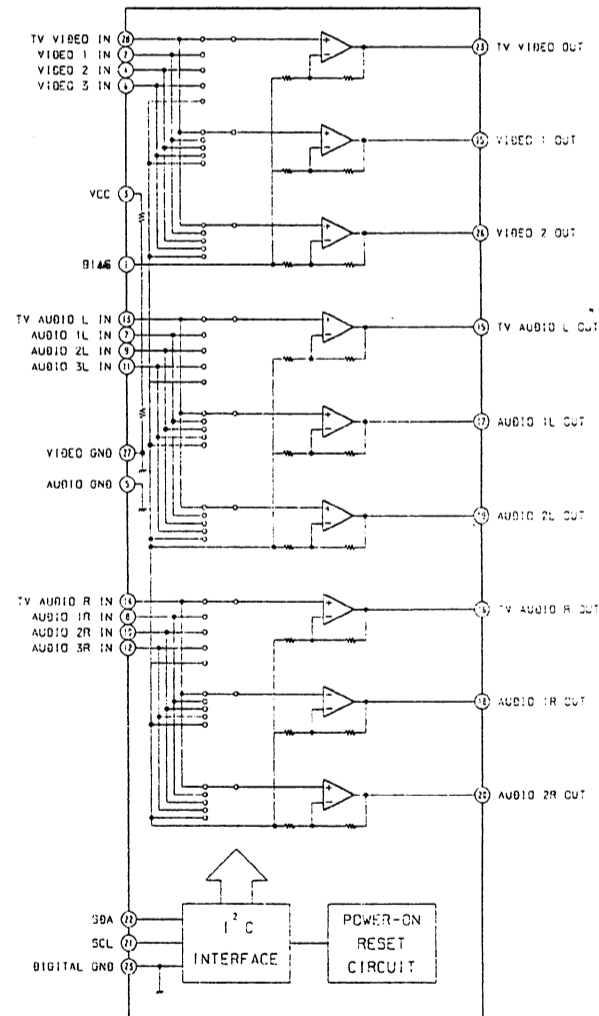




U BOARD IC401,402 NJM2245S



U BOARD IC444 CXA1114P



KV-29XBR85
RM-Y108

KV-29XBR85
RM-Y108

AV SW
Y/C SW
CONTROL

U

H7

POWER CONTROL
LED DISPLAY
IR DETECTOR

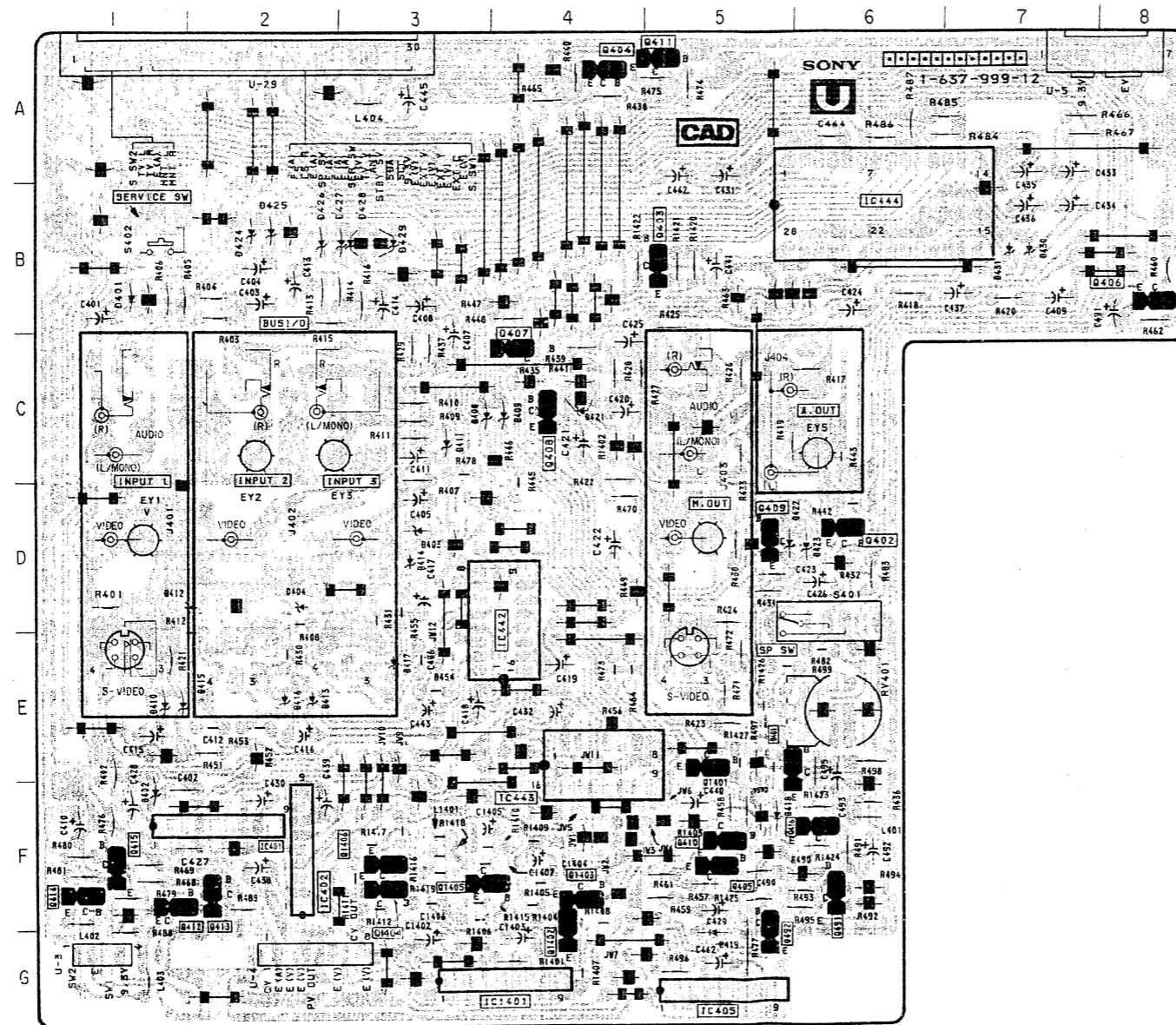
X1

[MTS DECODE]

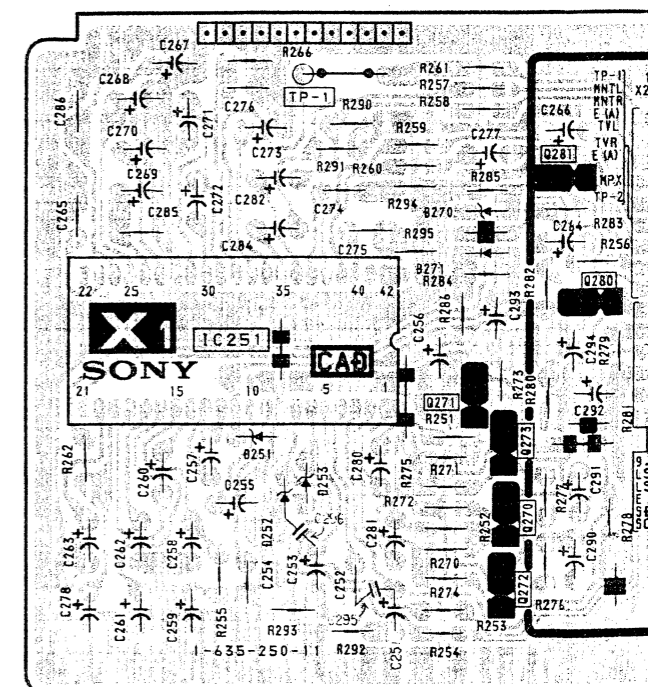
C

[R.]

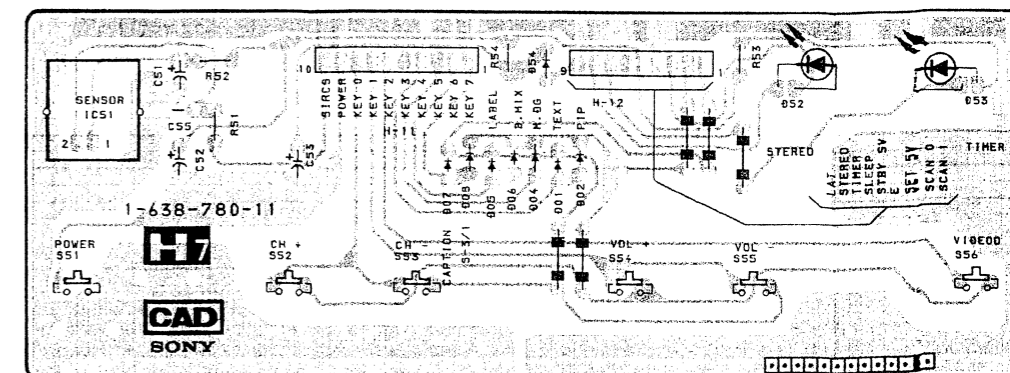
— U Board —



— X1 Board —



— H7 Board —



AV SW
Y/C SW
CONTROL

U

H7

POWER CONTROL
LED DISPLAY
IR DETECTOR

X1

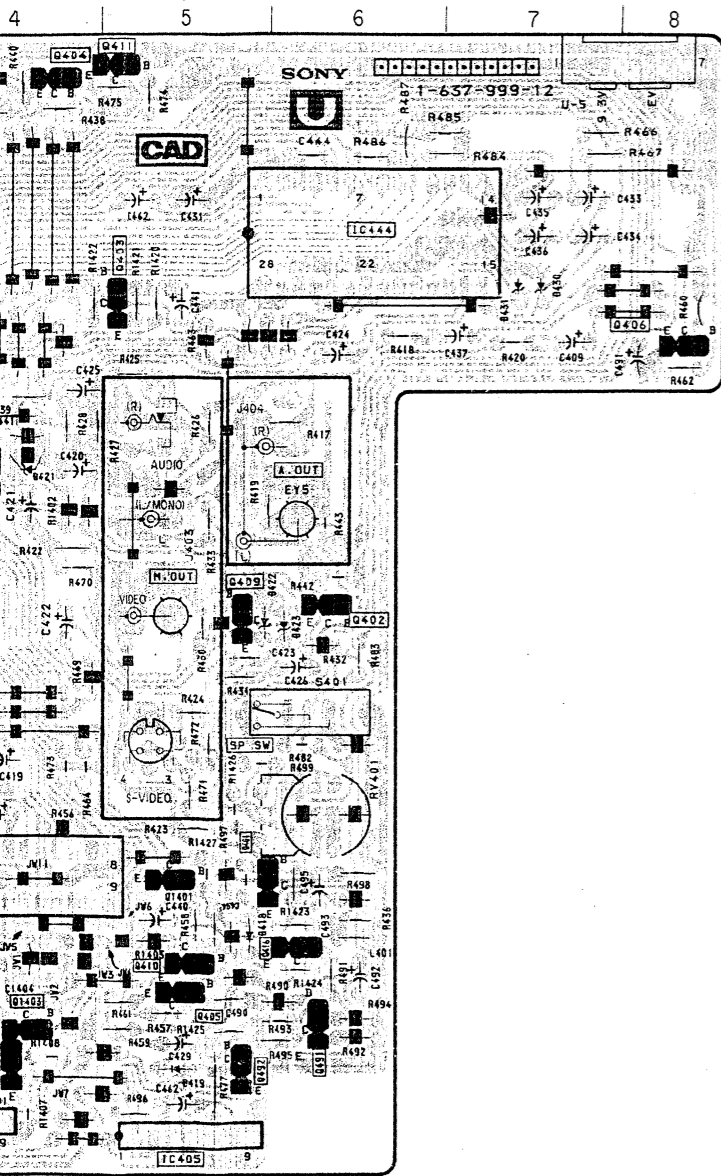
[MTS DECODE]

C

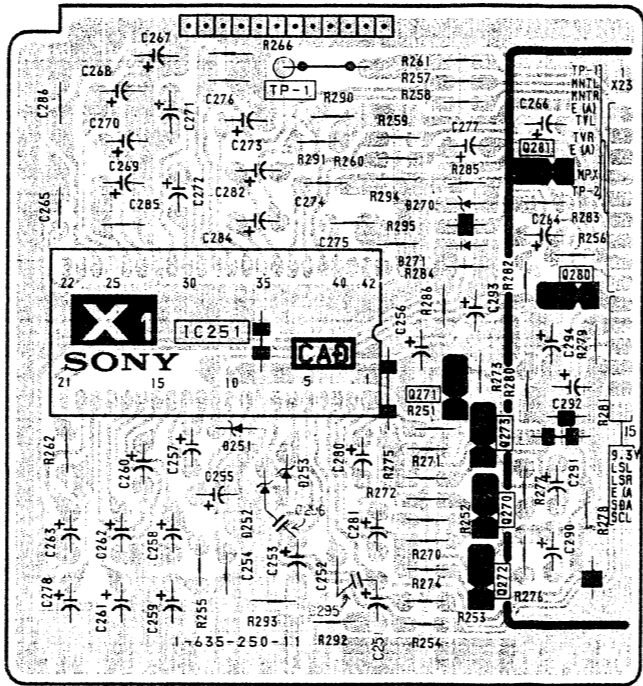
[R. G. B. OUT]

F1

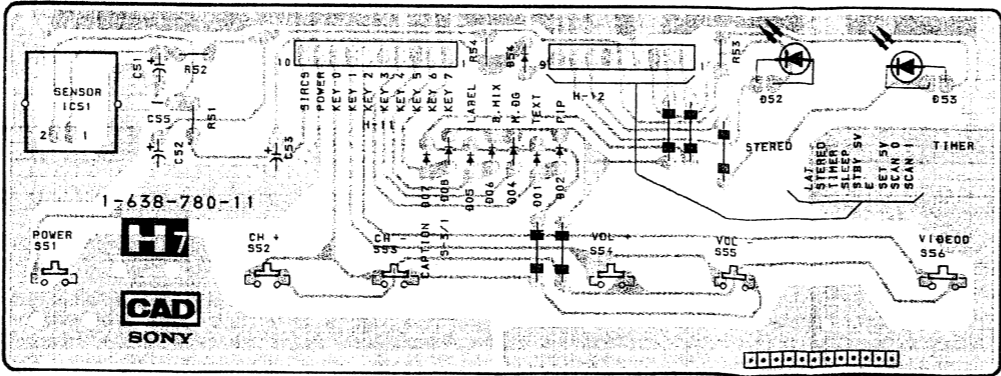
STBY 5V REG.
AC WAVE SHAP.



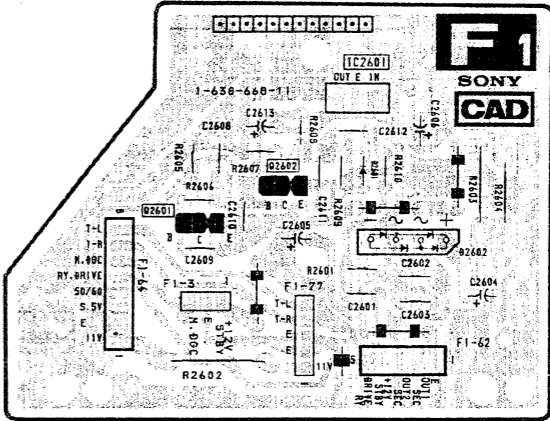
- X1 Board -



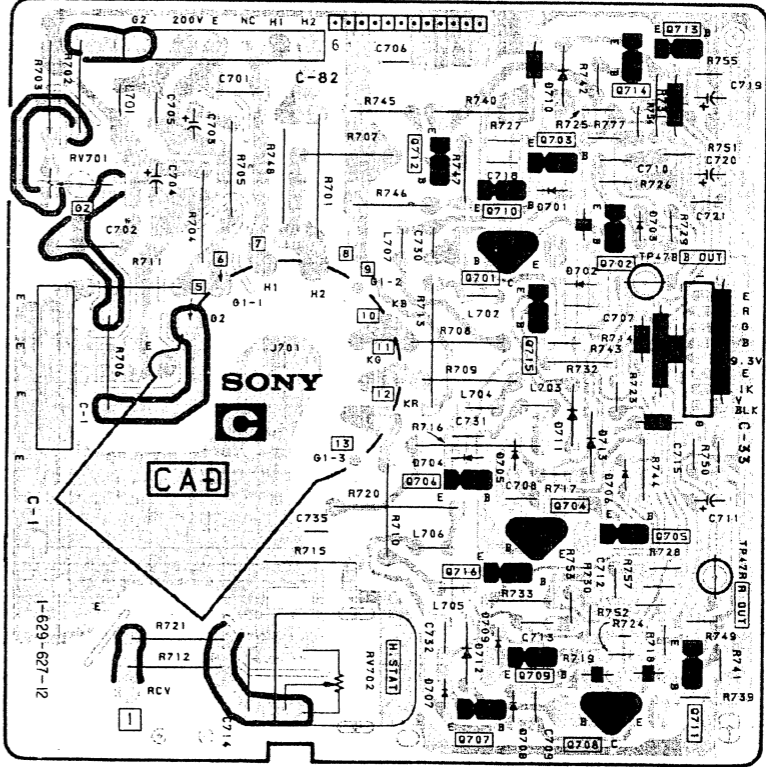
- H7 Board -



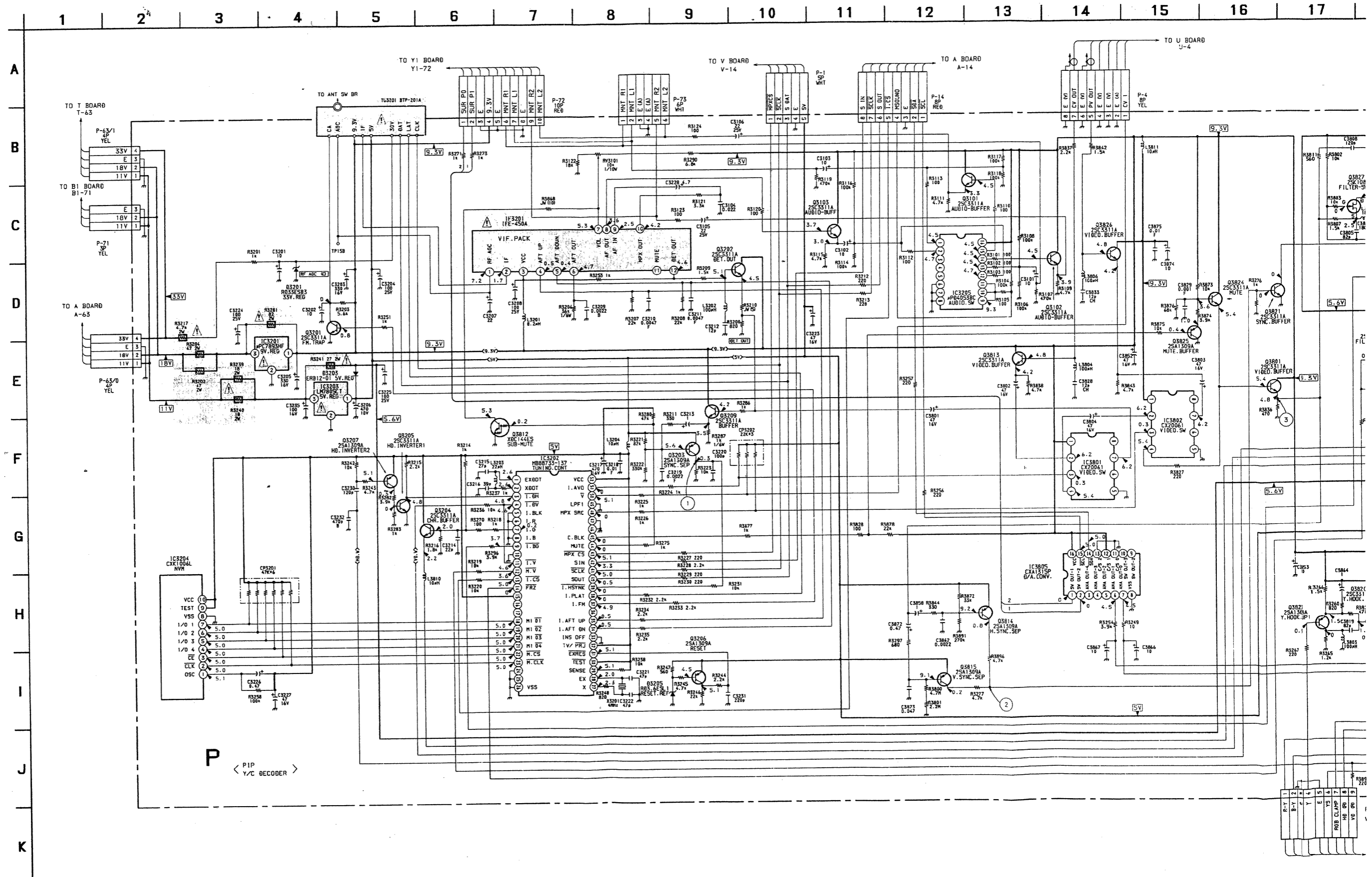
- F1 Board -



- C Board -



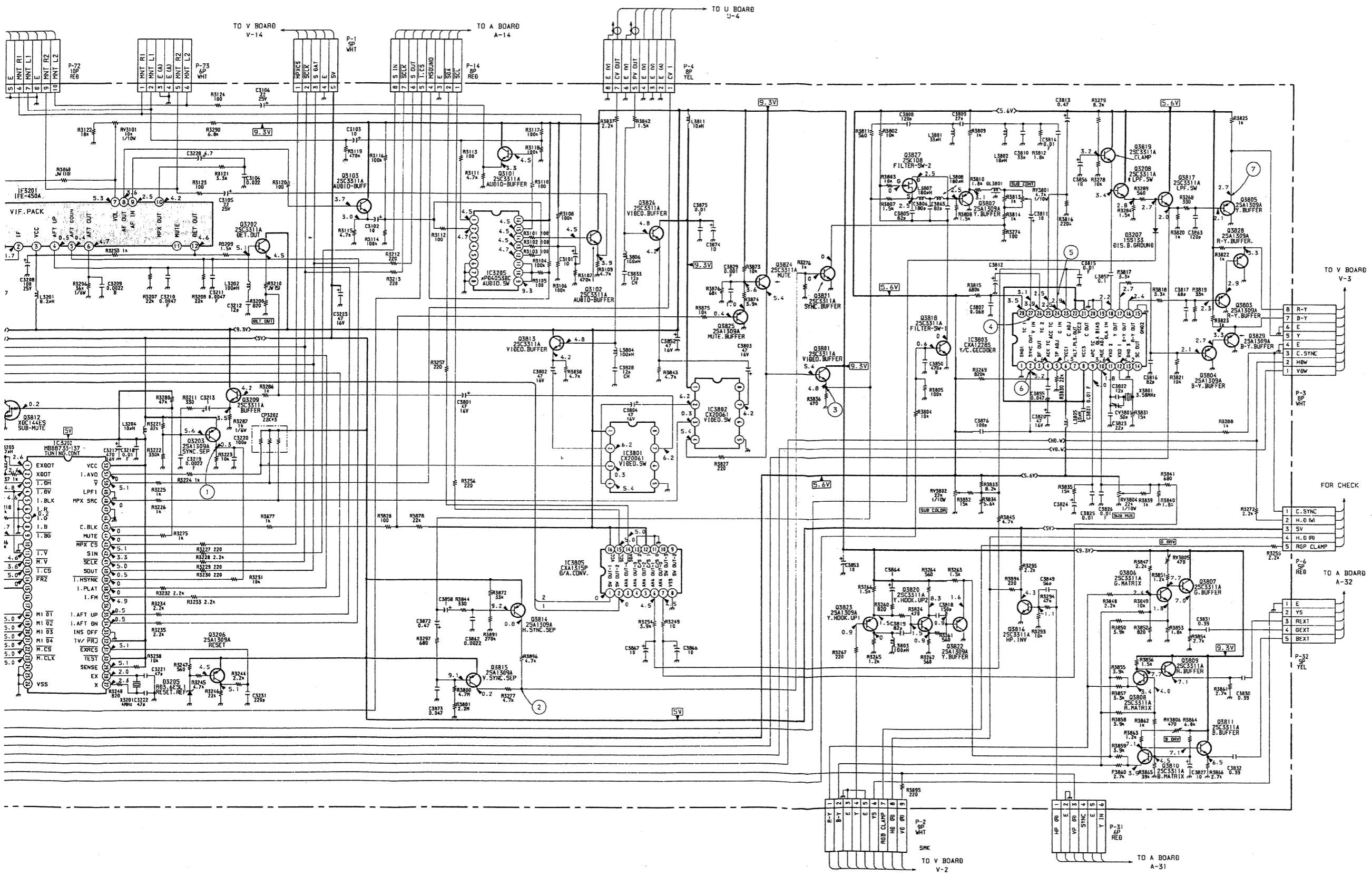
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



KV-29XBR85
RM-Y108

KV-29XBR85
RM-Y108

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23



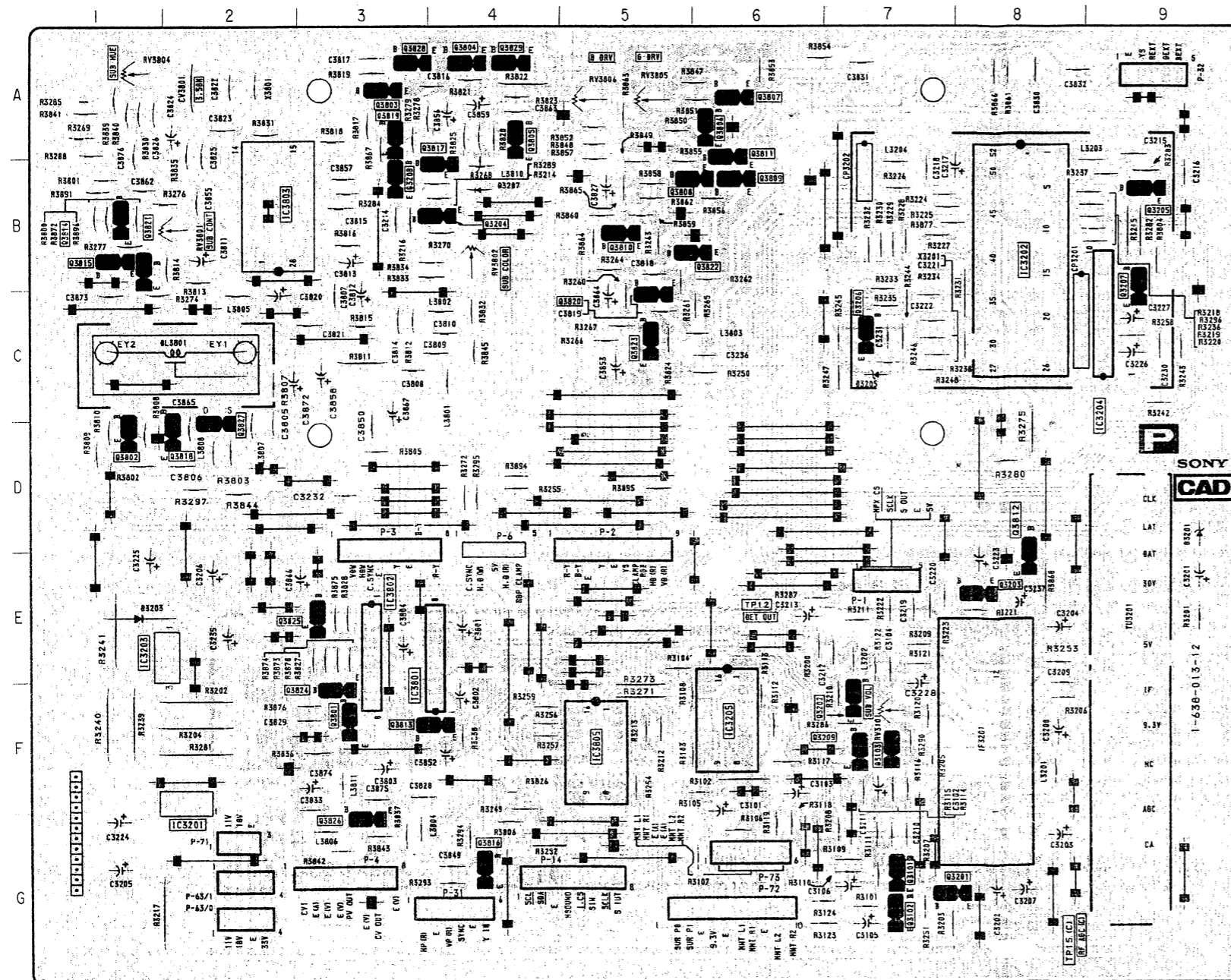
KV-29XBR85
RM-Y108

KV-29XBR85
RM-Y108

PIP
Y/C DECODER

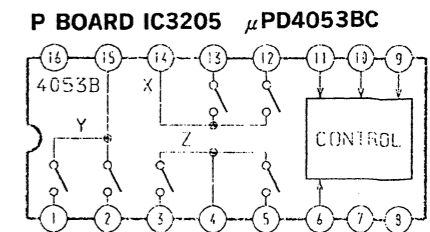
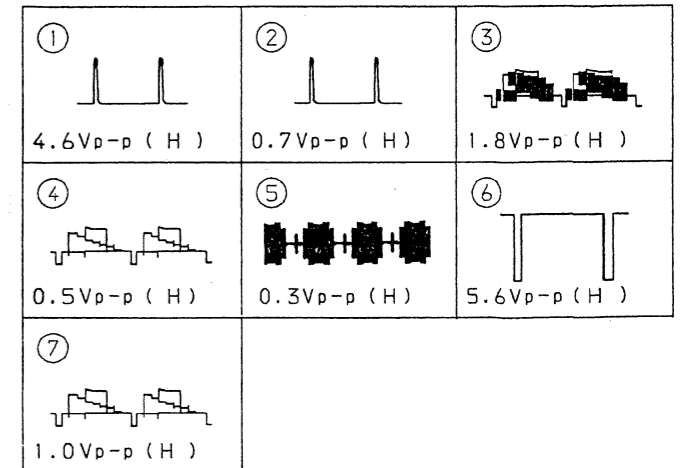
P

- P Board -

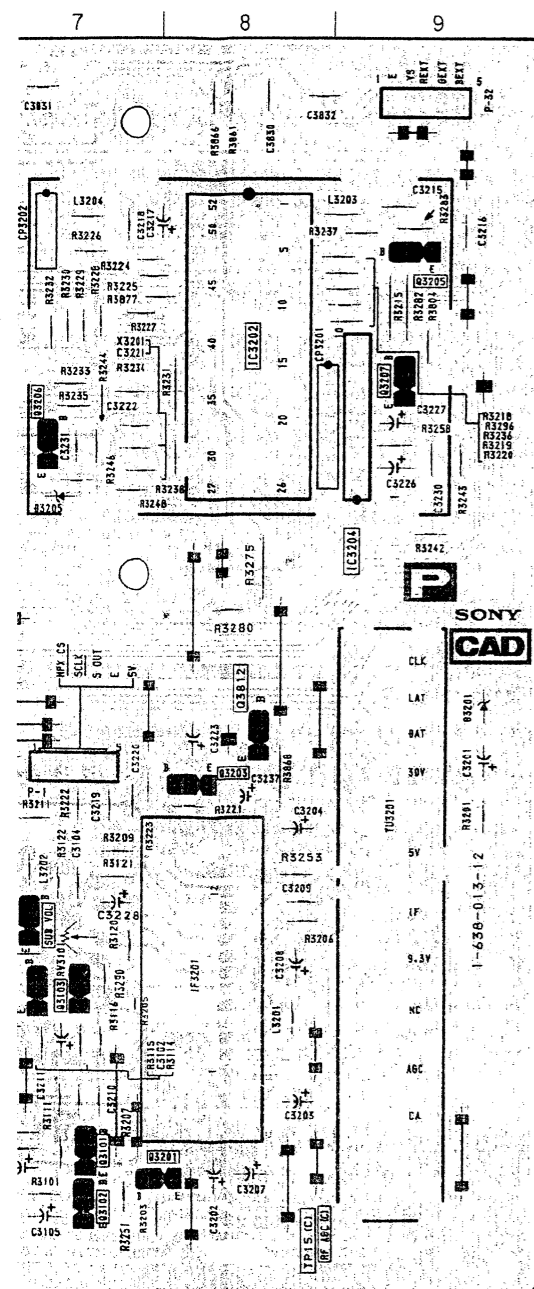


IC		
IC3201	G-2	Q3812 E-8
IC3202	B-8	Q3813 F-4
IC3203	E-2	Q3814 B-1
IC3204	C-9	Q3815 B-1
IC3205	F-6	Q3816 G-4
IC3801	E-4	Q3817 B-4
IC3802	E-3	Q3818 D-2
IC3803	B-2	Q3819 A-3
IC3805	F-5	Q3820 C-5
		Q3821 B-1
		Q3822 B-6
		Q3823 C-5
		Q3824 F-3
		Q3825 E-3
		Q3826 G-3
		Q3827 D-2
		Q3828 A-3
		Q3829 A-4
TRANSISTOR		
Q3101	G-7	
Q3102	G-7	
Q3103	F-7	
Q3201	G-8	
Q3202	F-7	
Q3203	E-8	
Q3204	B-4	
Q3205	B-9	
Q3206	C-7	
Q3207	B-9	
Q3208	B-3	
Q3209	F-7	
Q3801	F-3	
Q3802	D-1	
Q3803	A-3	
Q3804	A-4	
Q3805	A-4	
Q3806	A-6	
Q3807	A-6	
Q3808	B-5	
Q3809	B-6	
Q3810	B-5	
Q3811	A-6	
DIODE		
D3201	D-9	
D3203	E-1	
D3205	C-7	
D3207	B-4	
VARIABLE RESISTOR		
RV3101	F-7	
RV3801	B-2	
RV3802	B-4	
RV3804	A-1	
RV3805	A-5	
RV3806	A-5	

P BOARD

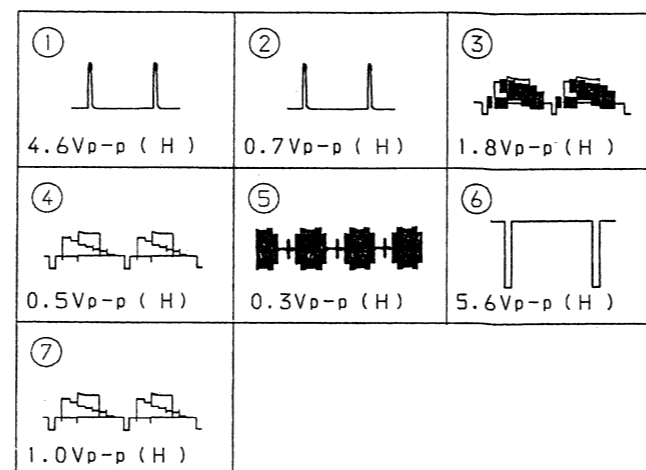


P
C DECODER

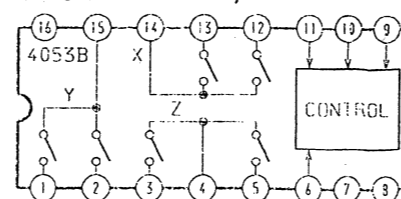


IC		
IC3201	G-2	Q3812 E-8
IC3202	B-8	Q3813 F-4
IC3203	F-2	Q3814 B-1
IC3204	C-9	Q3815 B-1
IC3205	F-6	Q3816 G-4
IC3801	F-4	Q3817 B-4
IC3802	E-3	Q3818 D-2
IC3803	B-2	Q3819 A-3
IC3805	F-5	Q3820 C-5
		Q3821 B-1
		Q3822 B-6
		Q3823 C-5
		Q3824 F-3
		Q3825 E-3
		Q3826 G-3
		Q3827 D-2
		Q3828 A-3
		Q3829 A-4
TRANSISTOR		
Q3101	G-7	
Q3102	G-7	
Q3103	F-7	
Q3201	G-8	
Q3202	F-7	
Q3203	E-8	
Q3204	B-4	
Q3205	B-9	
Q3206	C-7	
Q3207	B-9	
Q3208	B-3	
Q3209	F-7	
Q3801	F-3	
Q3802	D-1	
Q3803	A-3	
Q3804	A-4	
Q3805	A-4	
Q3806	A-6	
Q3807	A-6	
Q3808	B-5	
Q3809	B-6	
Q3810	B-5	
Q3811	A-6	
DIODE		
D3201	D-9	
D3203	E-1	
D3205	C-7	
D3207	B-4	
VARIABLE RESISTOR		
RV3101	F-7	
RV3801	B-2	
RV3802	B-4	
RV3804	A-1	
RV3805	A-5	
RV3806	A-5	

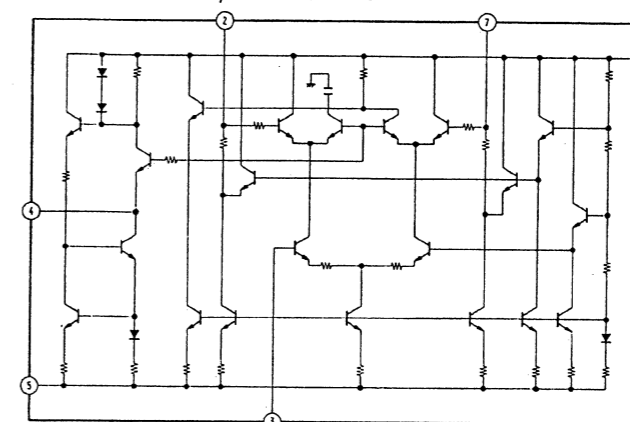
P BOARD



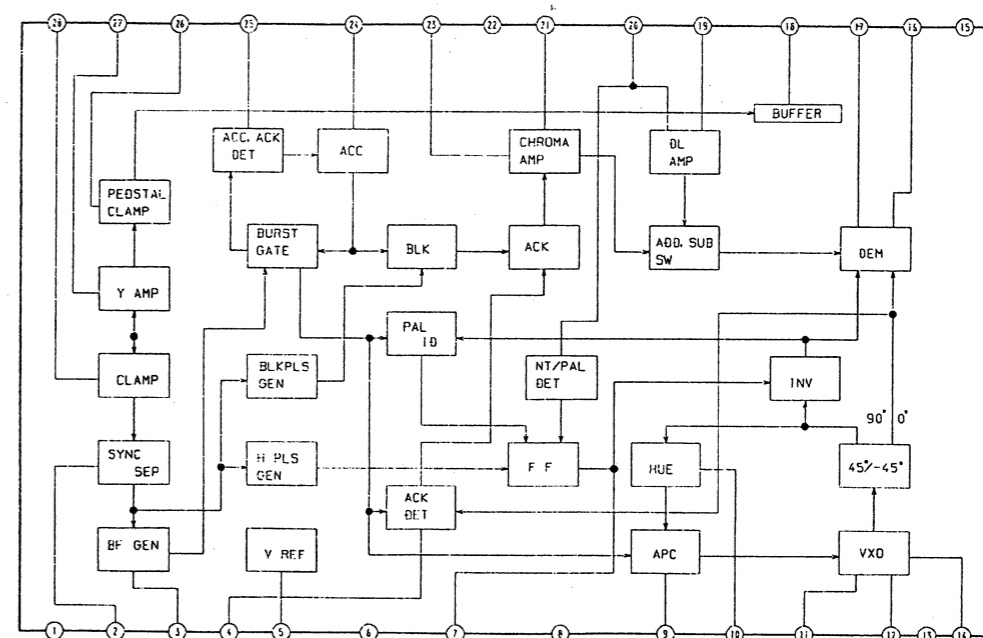
P BOARD IC3205 μ PD4053BC



P BOARD IC3801,3802 CX20061



P BOARD IC3803 CXA1228S

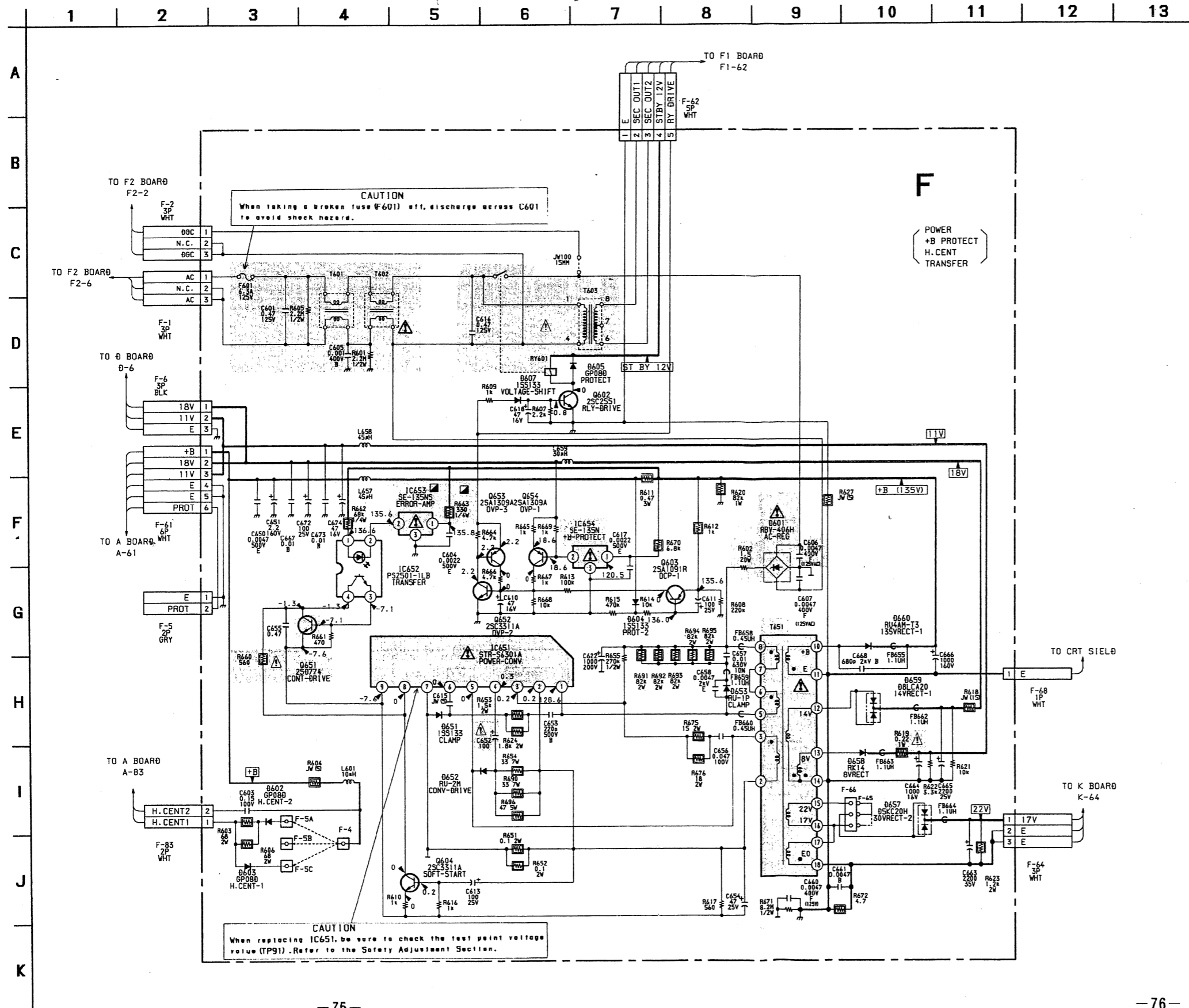


[INTER CONNECT]

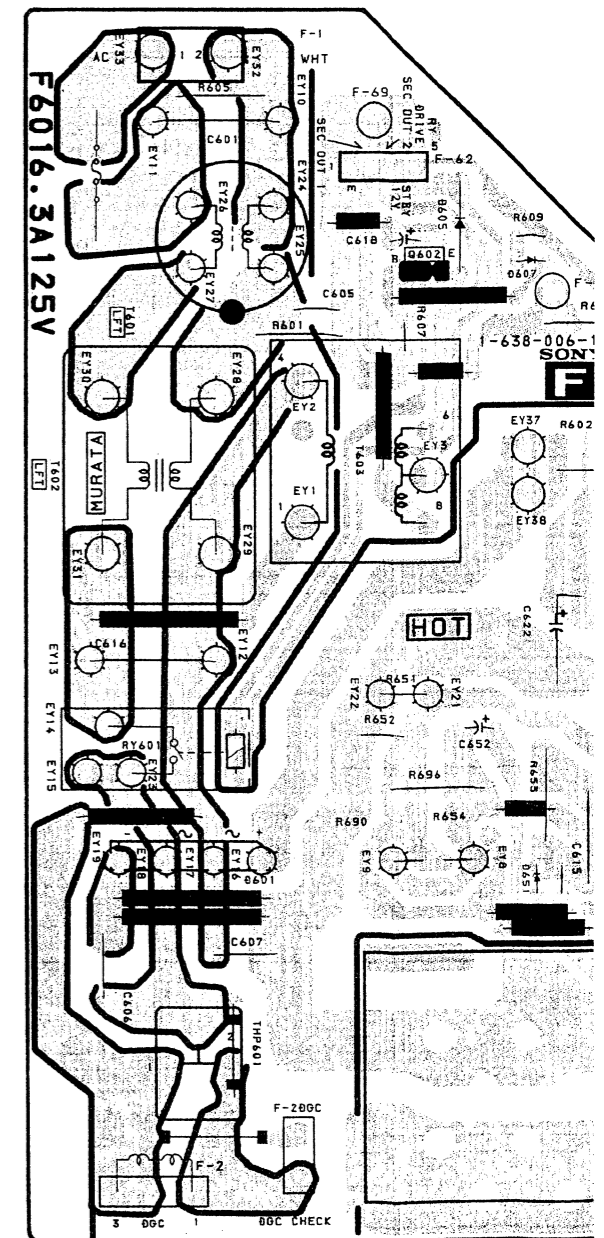


KV-29XBR85 **KV-29XBR85**
RM-Y108 RM-Y108

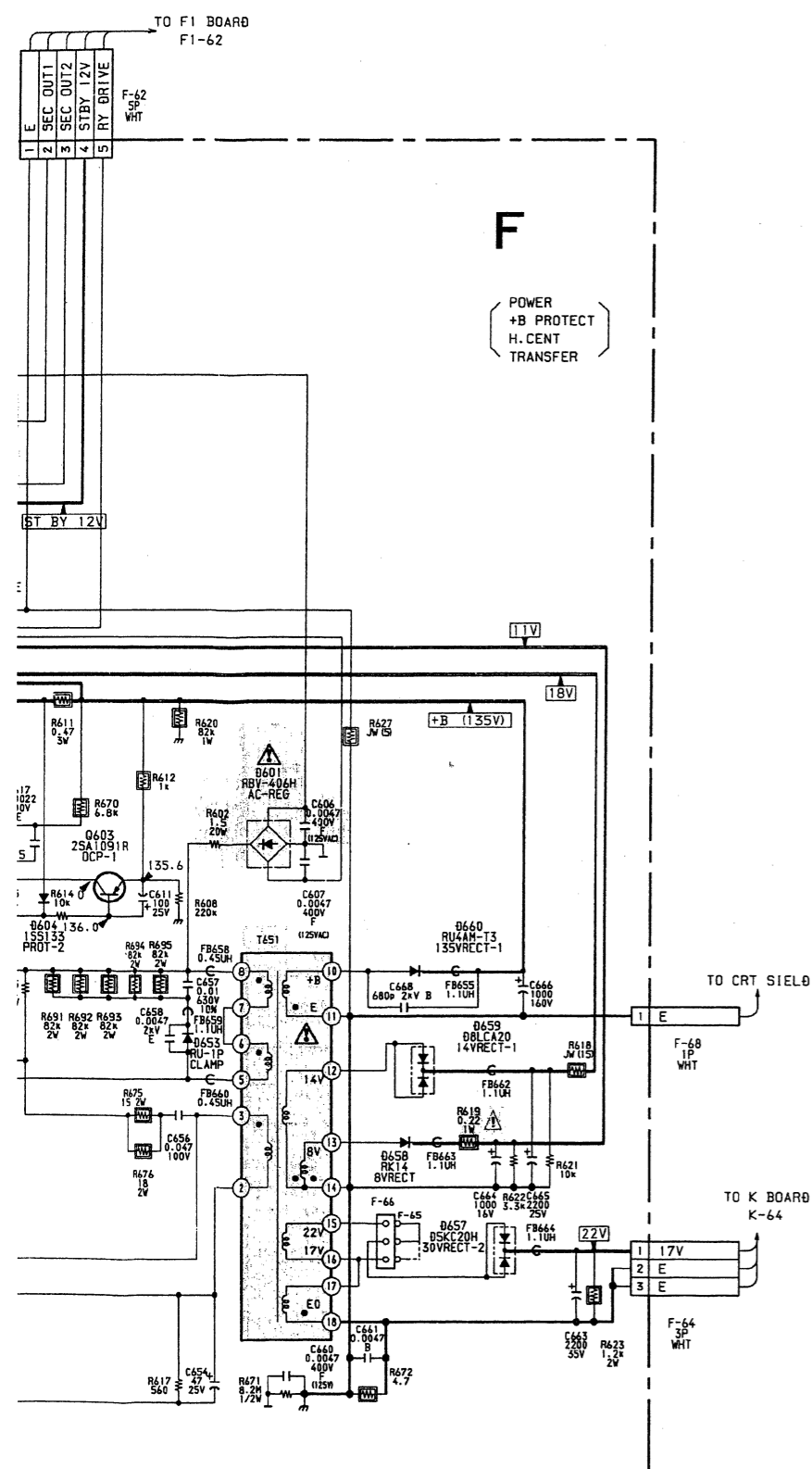
F POW:
+B F
H. C
TRAN



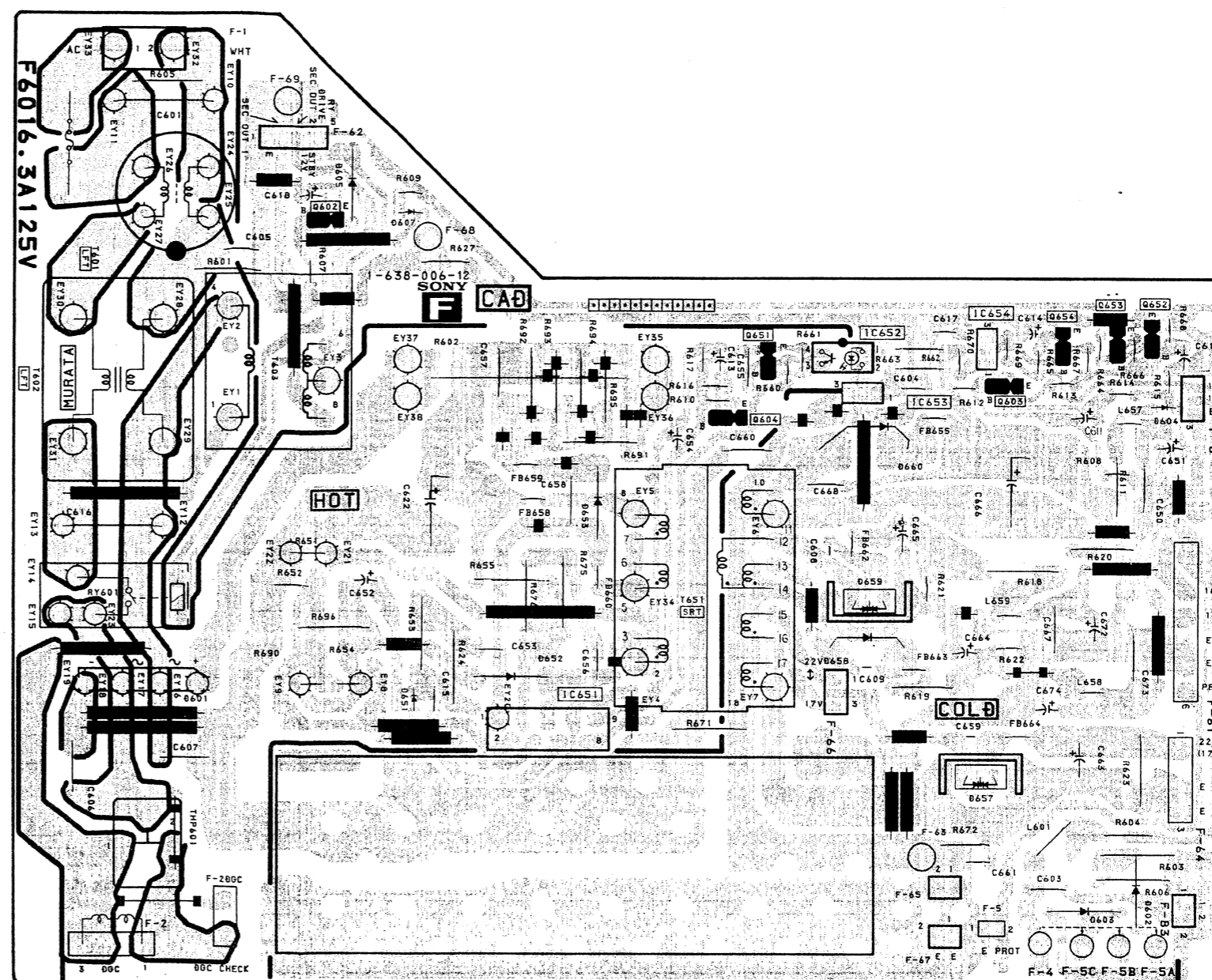
- F Board -



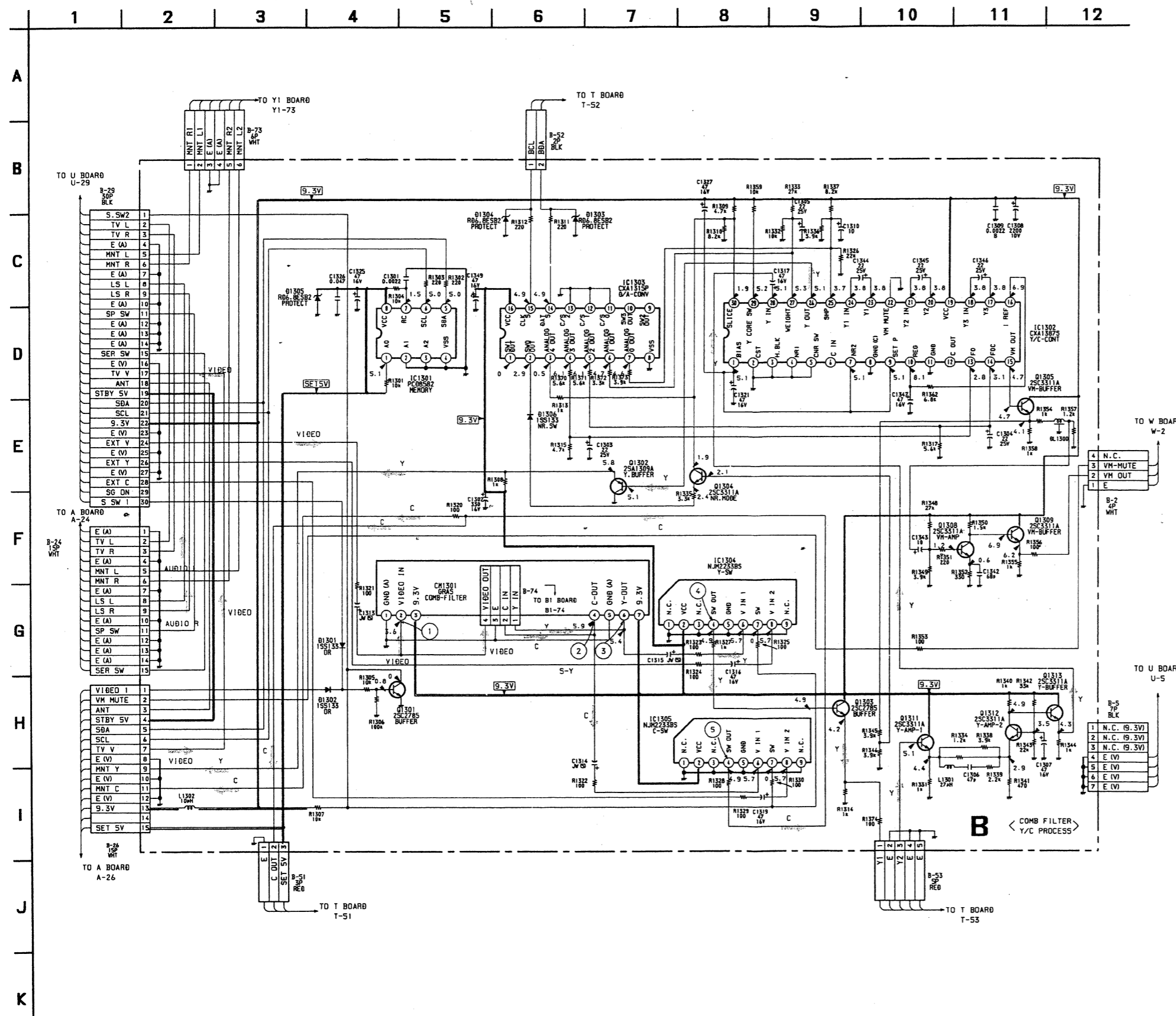
8	9	10	11	12	13
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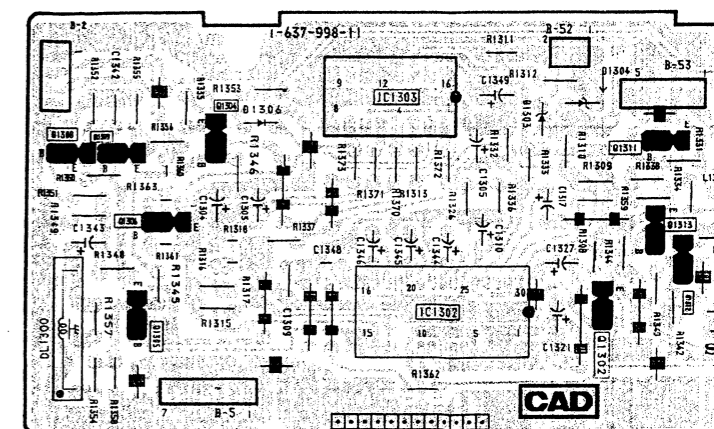
— F Board —



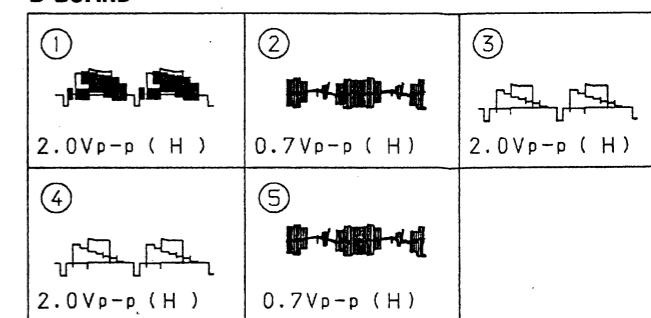
B COMB FILTER
Y/C PROCESS



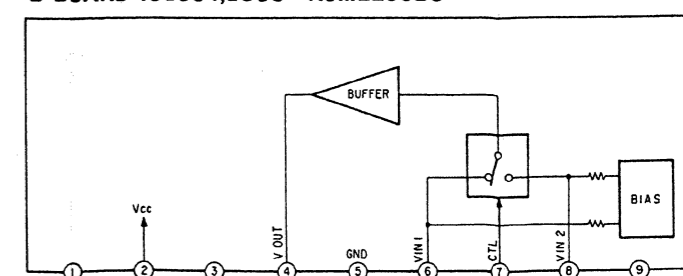
- B Board -



B BOARD



B BOARD IC1304,1305 NJM2233BS



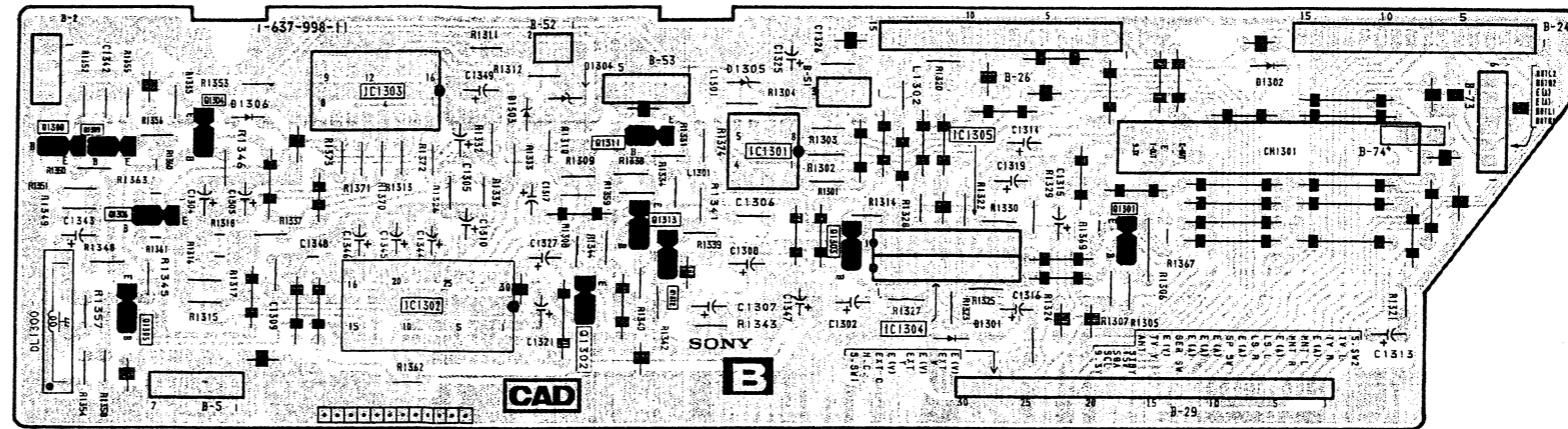
KV-29XBR85
RM-Y108

KV-29XBR85
RM-Y108

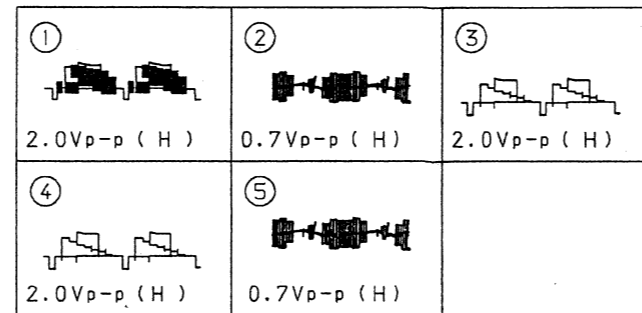
B

COMB FILTER
Y/C PROCESS

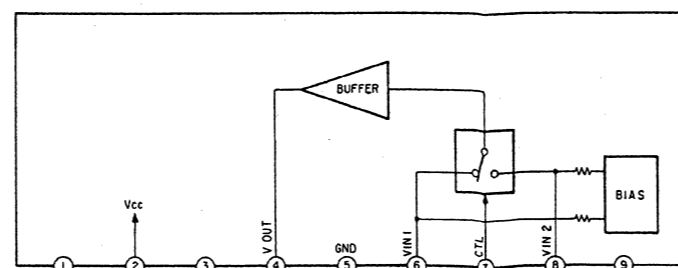
- B Board -



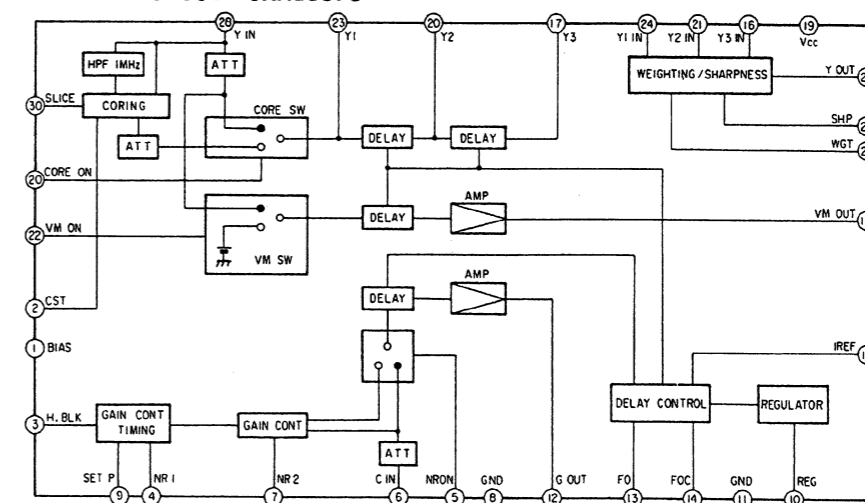
B BOARD



B BOARD IC1304,1305 NJM2233BS

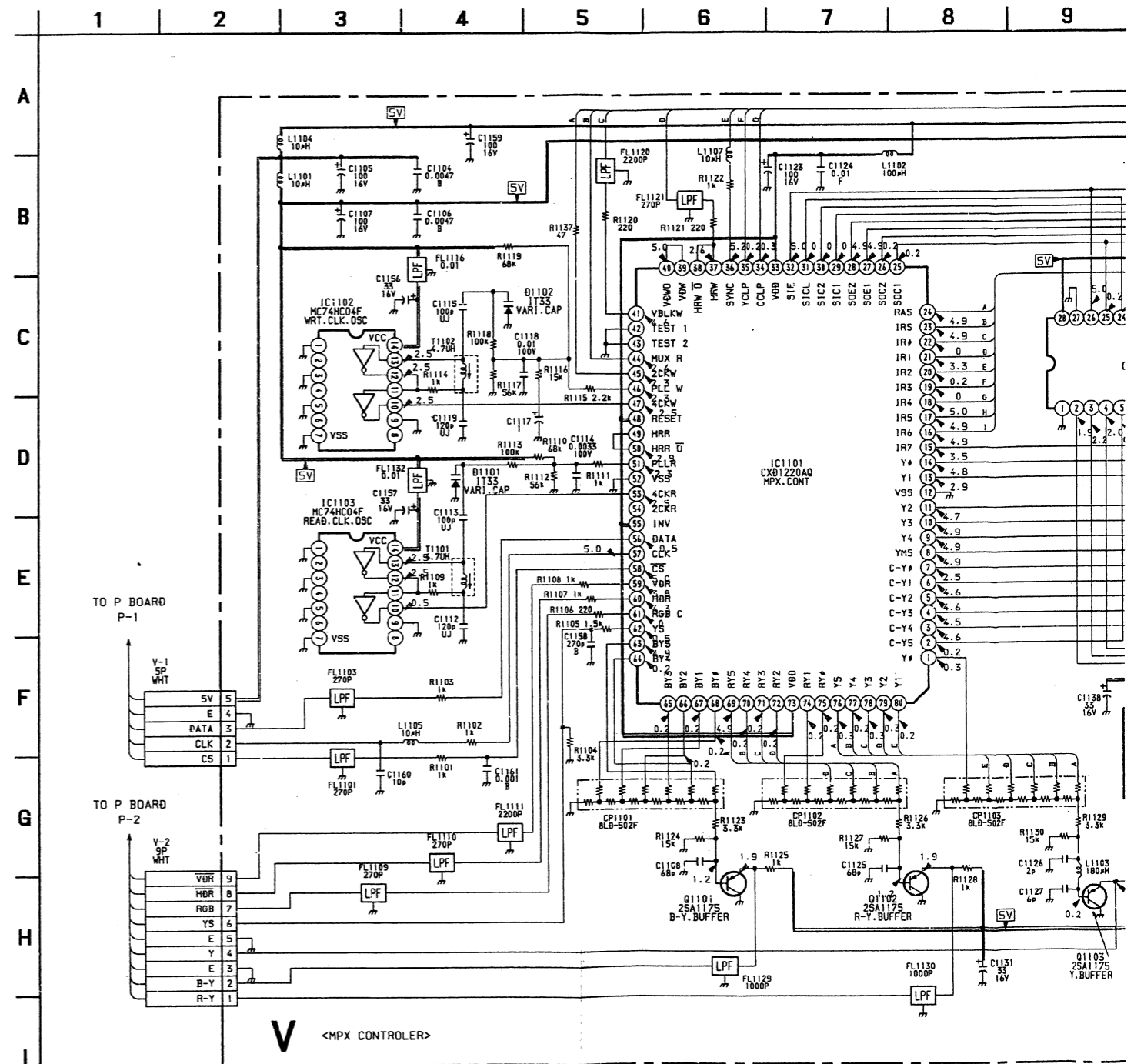
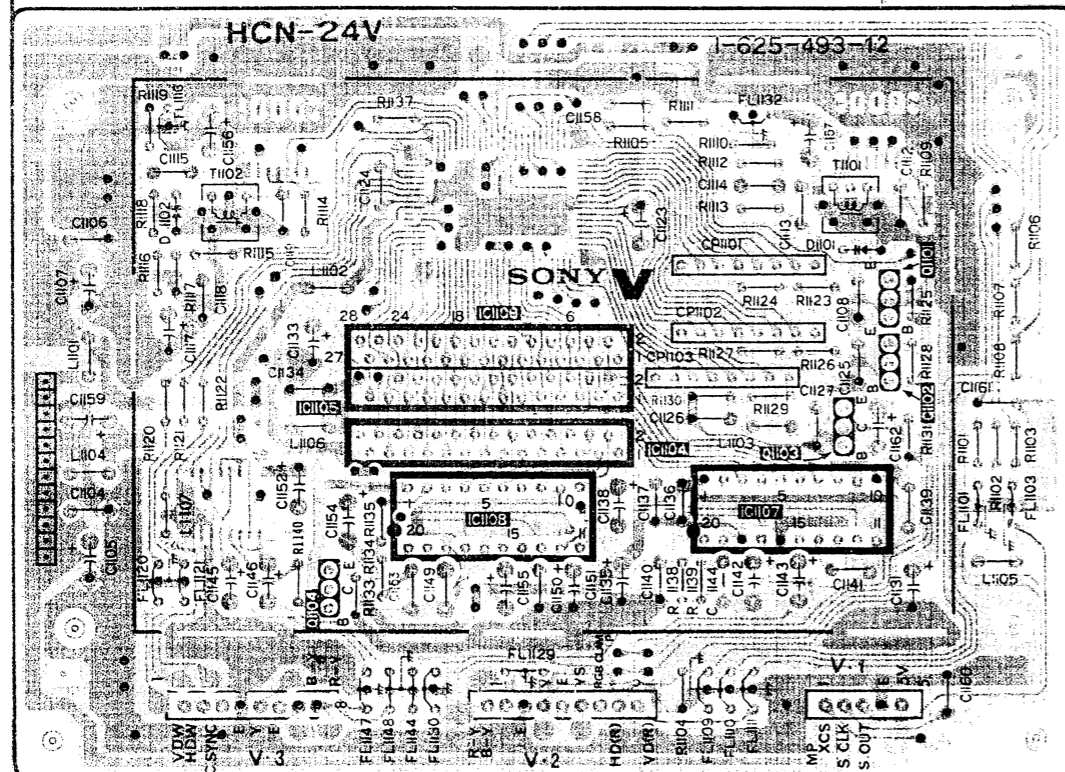


B BOARD IC1302 CXA1387S



KV-29XBR85
RM-Y108

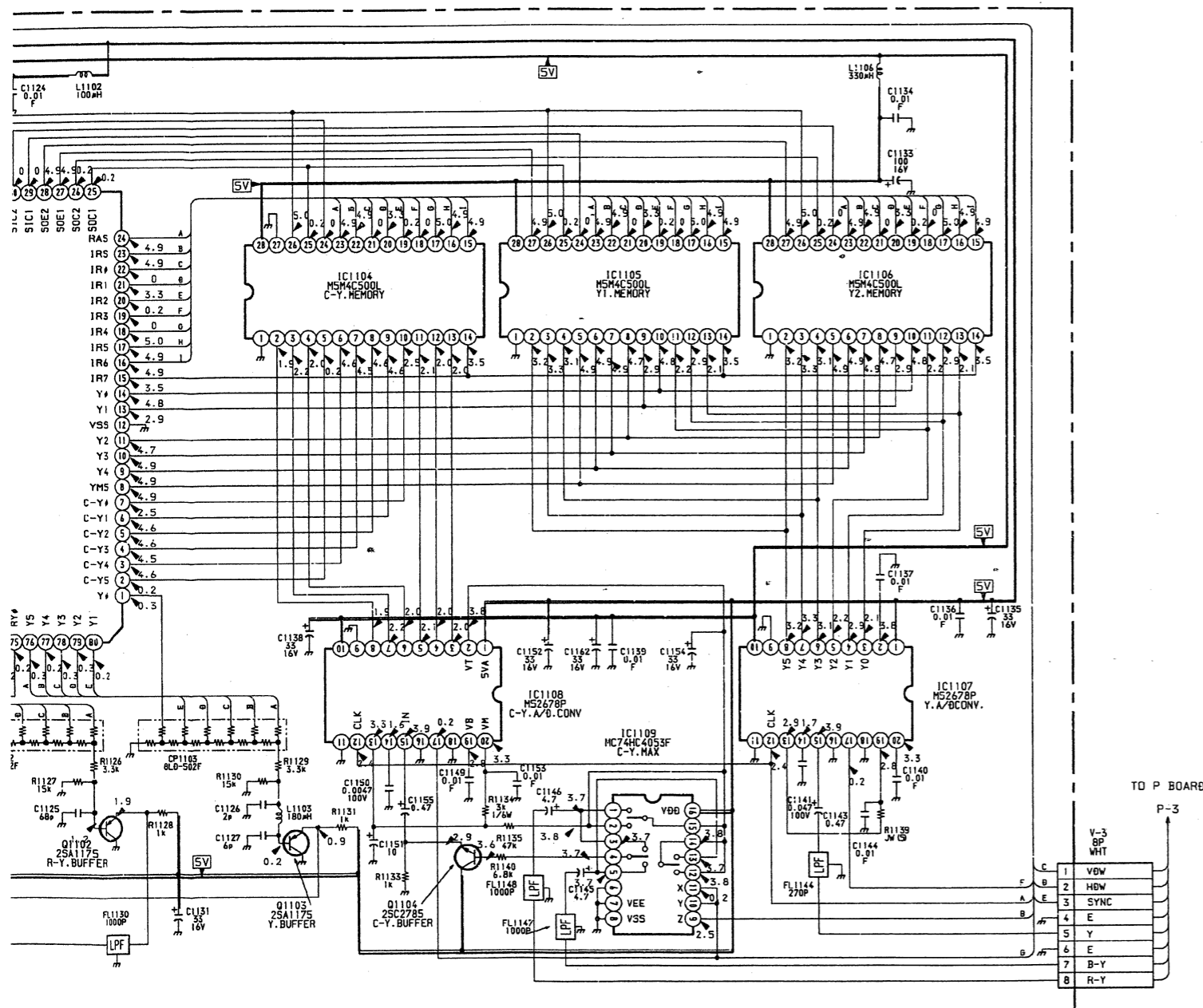
— V Board —



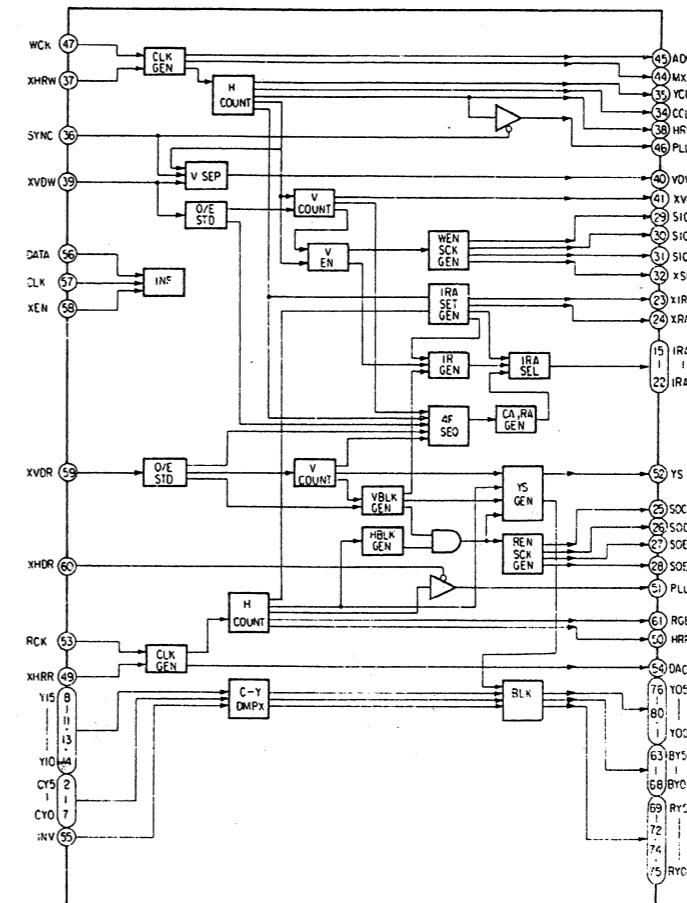
KV-29XBR85
RM-Y108

KV-29XBR85
RM-Y108

7 8 9 10 11 12 13 14 15 16



V BOARD IC1101 CXD1220AQ



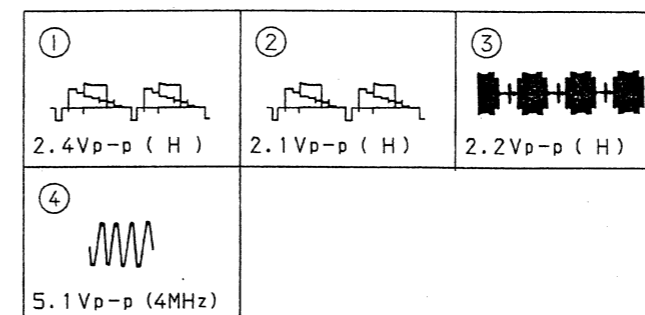
KV-29XBR85
RM-Y108

T

— 85 —



T BAORD



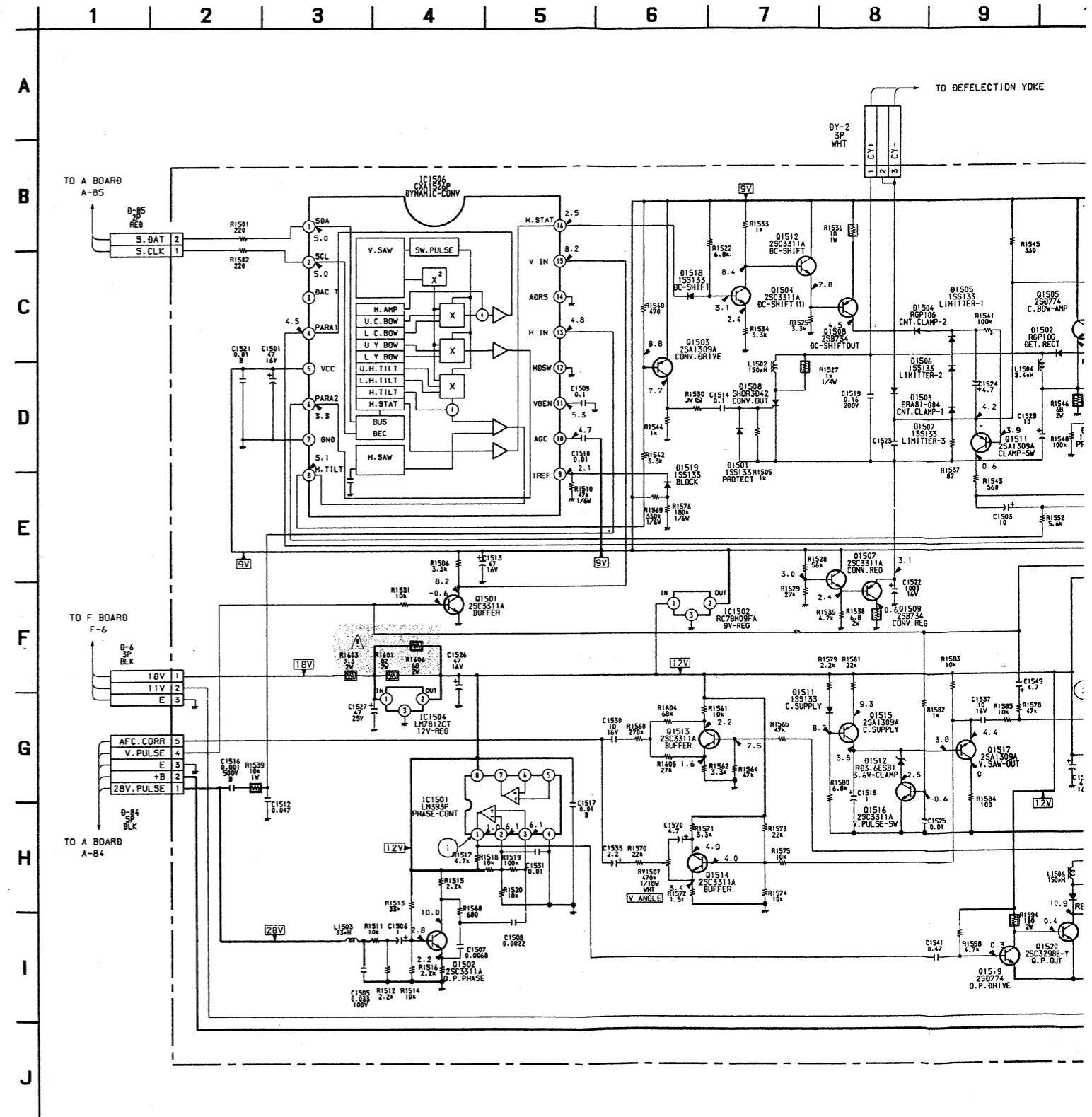
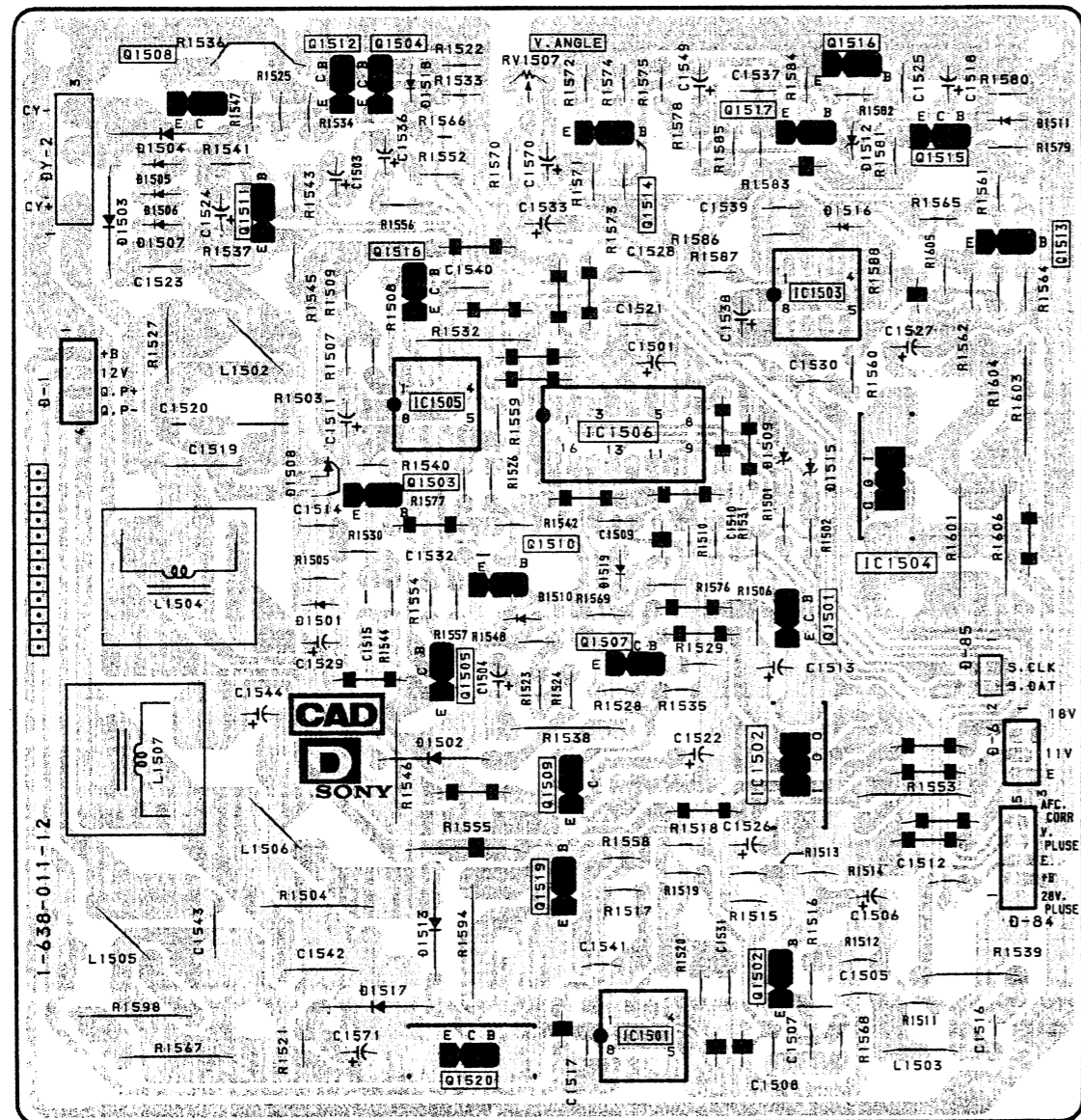
KV-29XBR85
RM-Y108

KV-29XBR85
RM-Y108

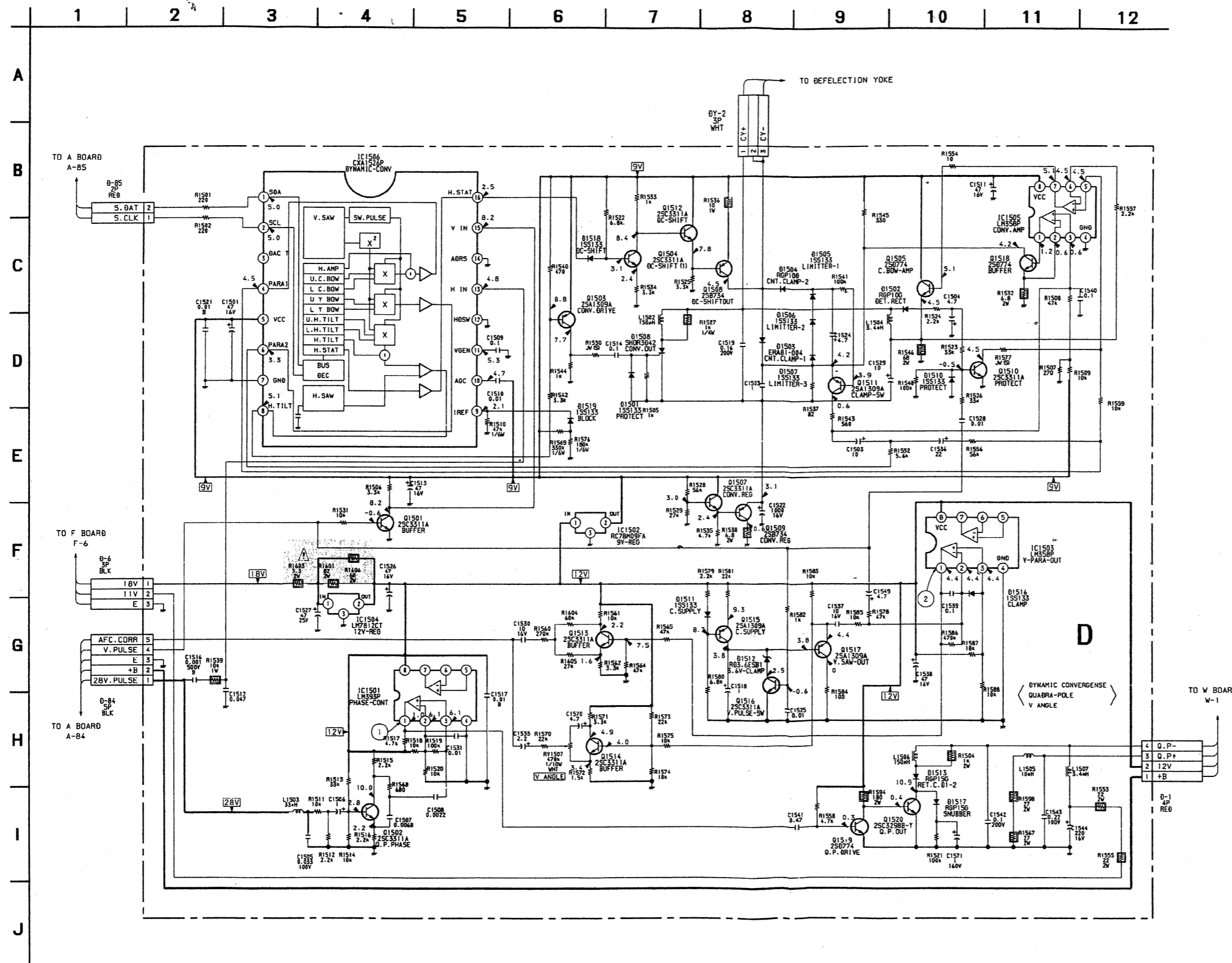
DYNAMIC CONVERGENCE
QUADRA-POLE
V ANGLE

D

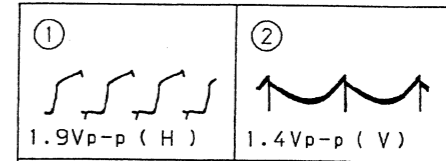
- D Board -

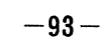


SE **D**

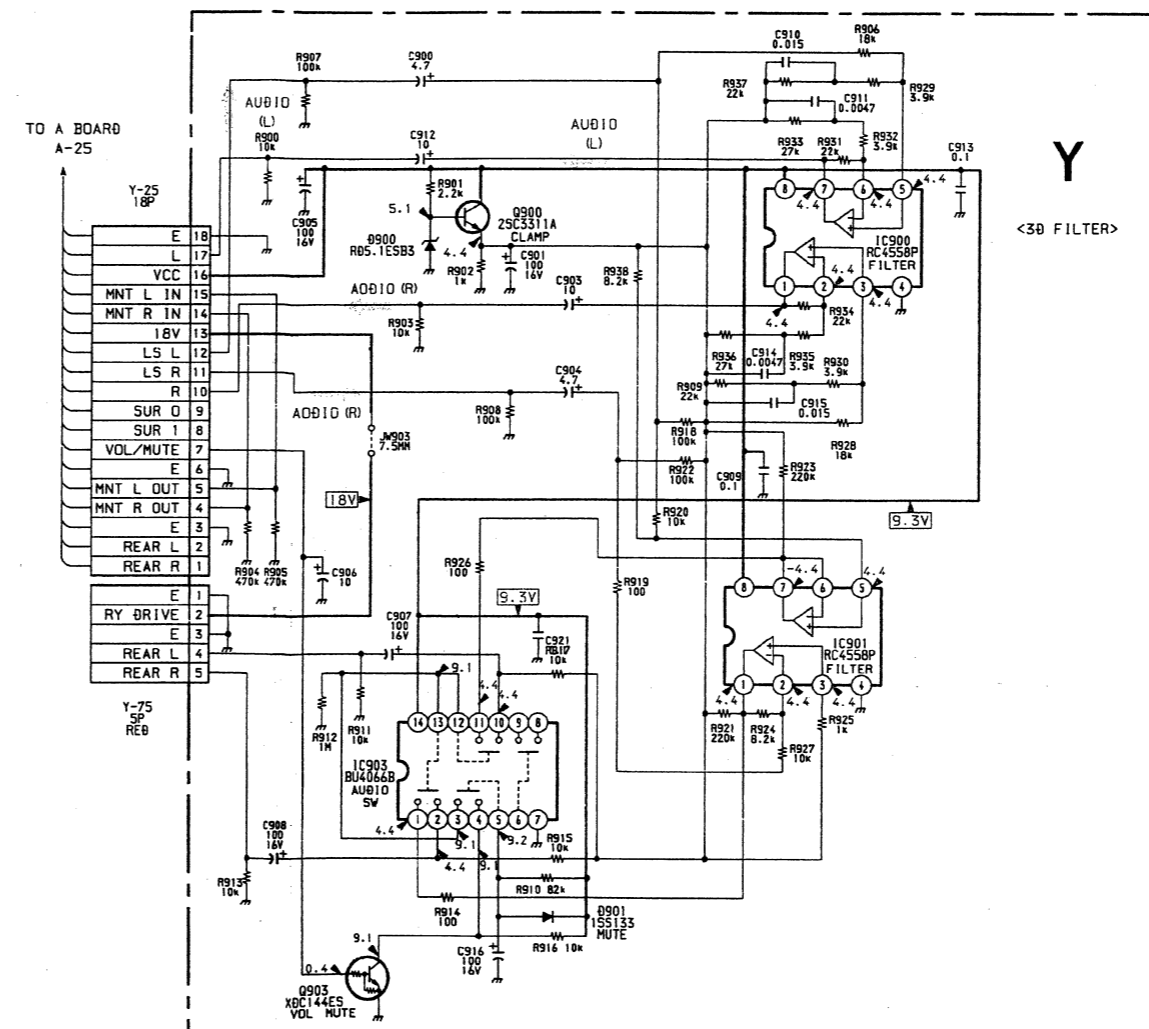
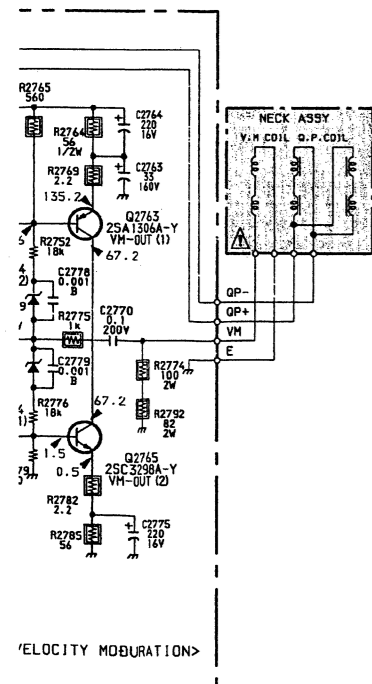
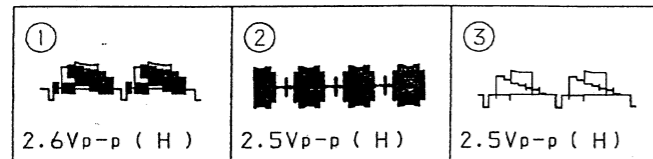


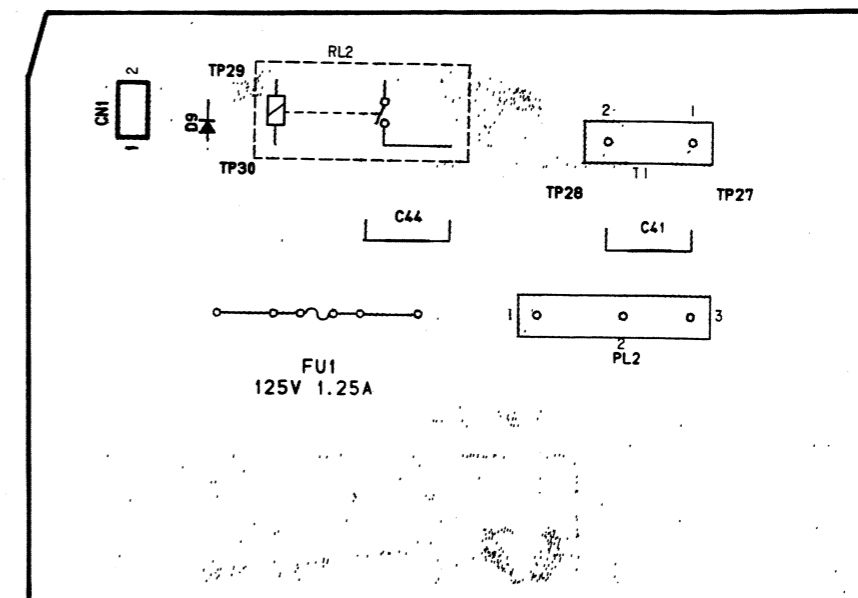
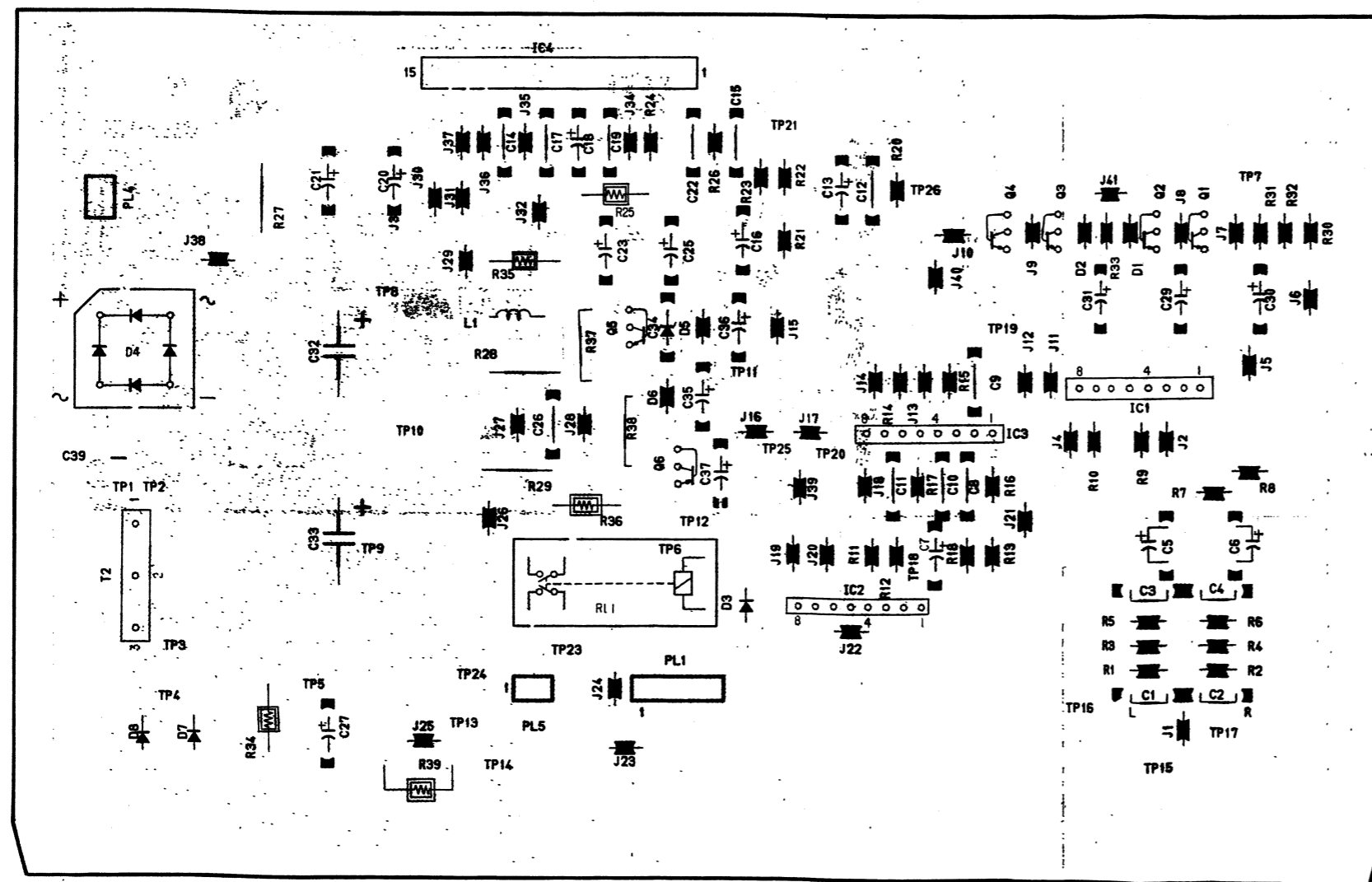
D BOARD





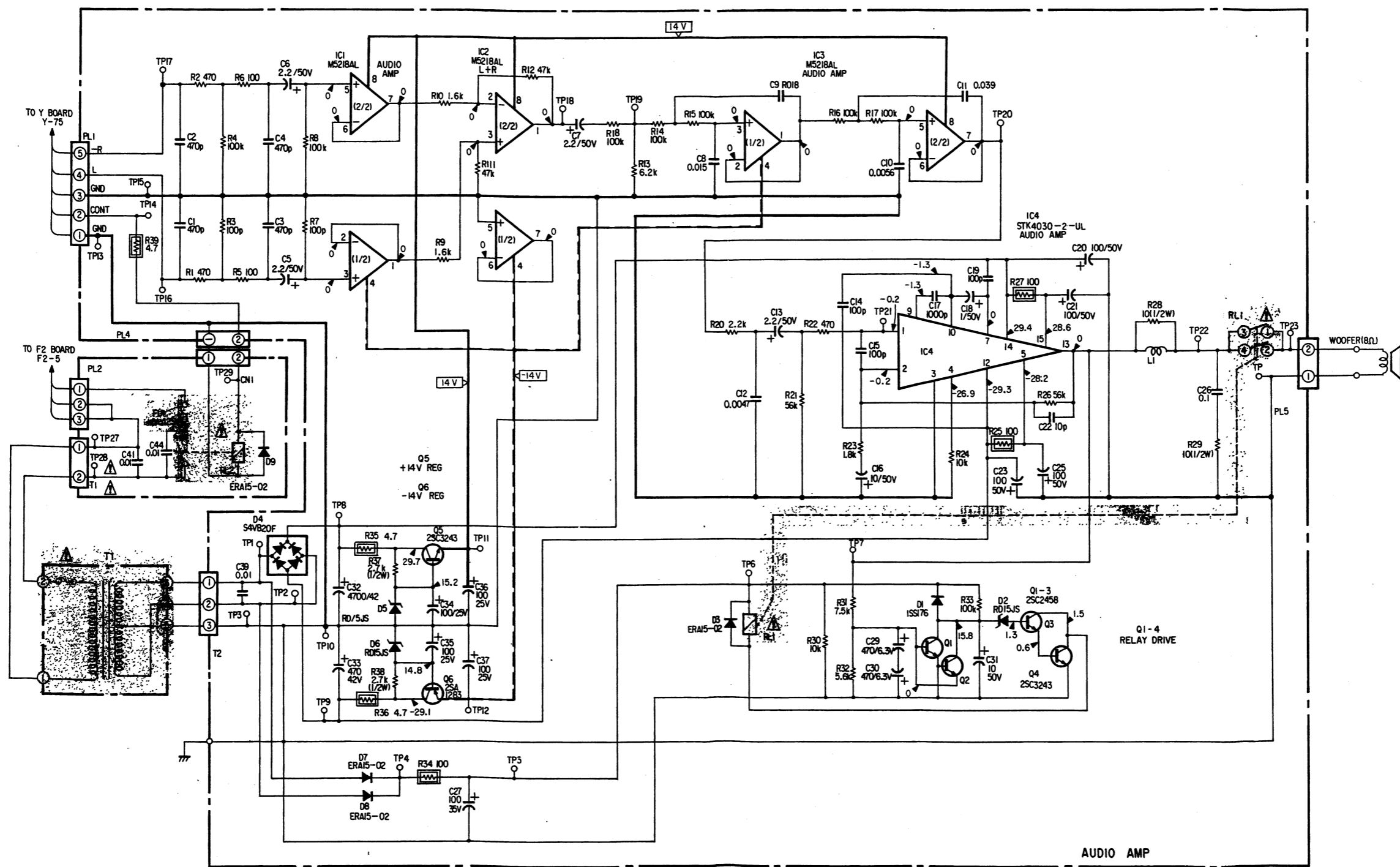
B1 BOARD



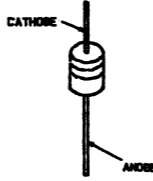
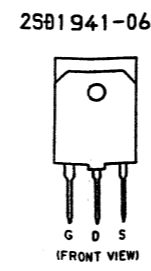
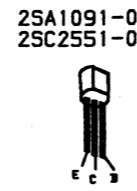
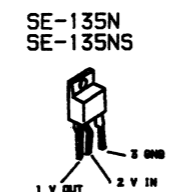
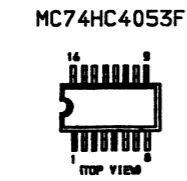
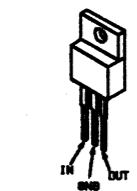
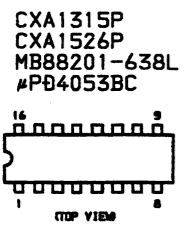
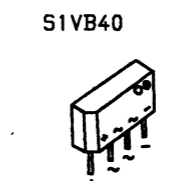
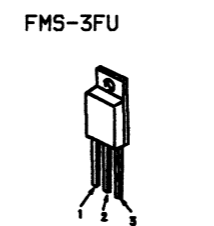
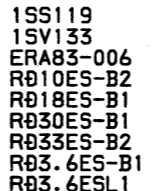
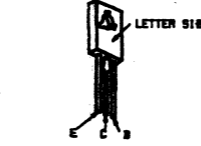
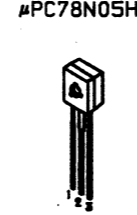
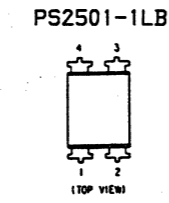
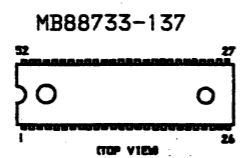
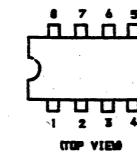
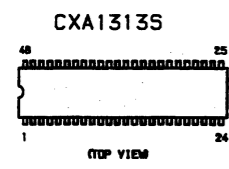
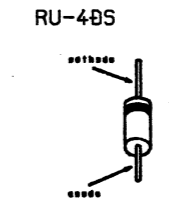
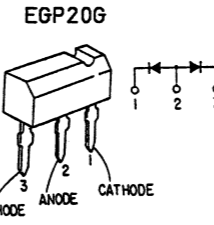
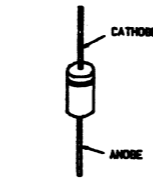
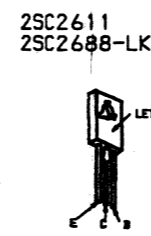
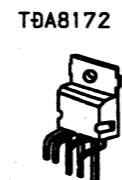
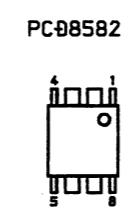
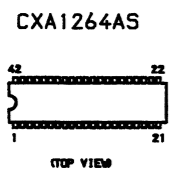
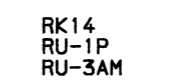
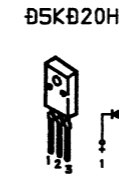
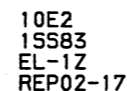
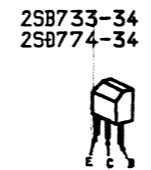
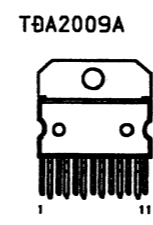
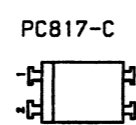
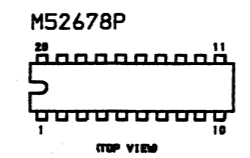
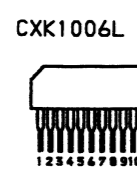
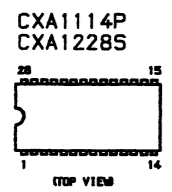
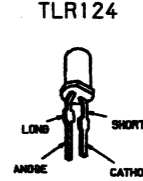
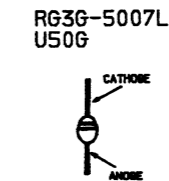
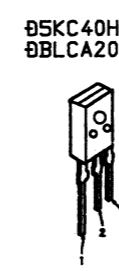
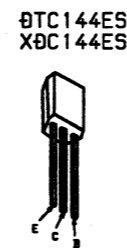
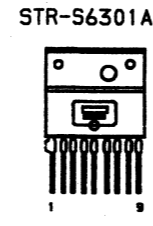
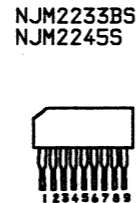
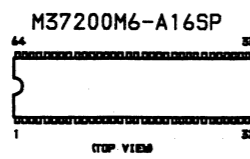
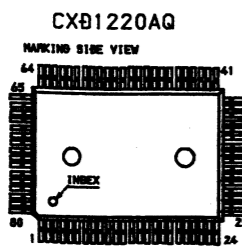
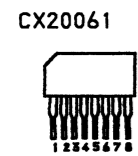
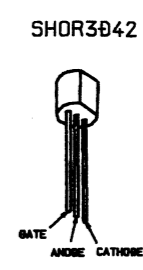
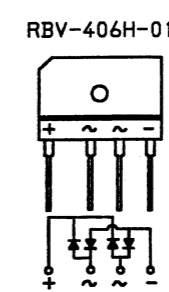
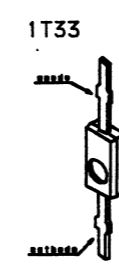
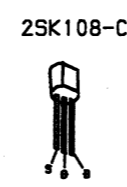
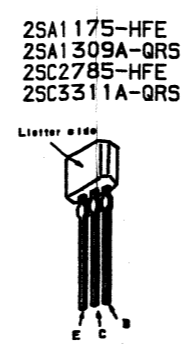
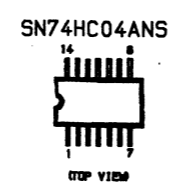
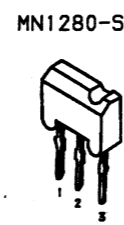
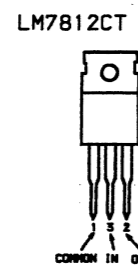
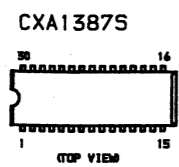
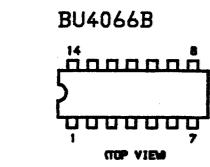


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A
B
C
D
E
F
G
H
I
J
K



6-4. SEMICONDUCTORS




SECTION 7 EXPLODED VIEWS

NOTE:


- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

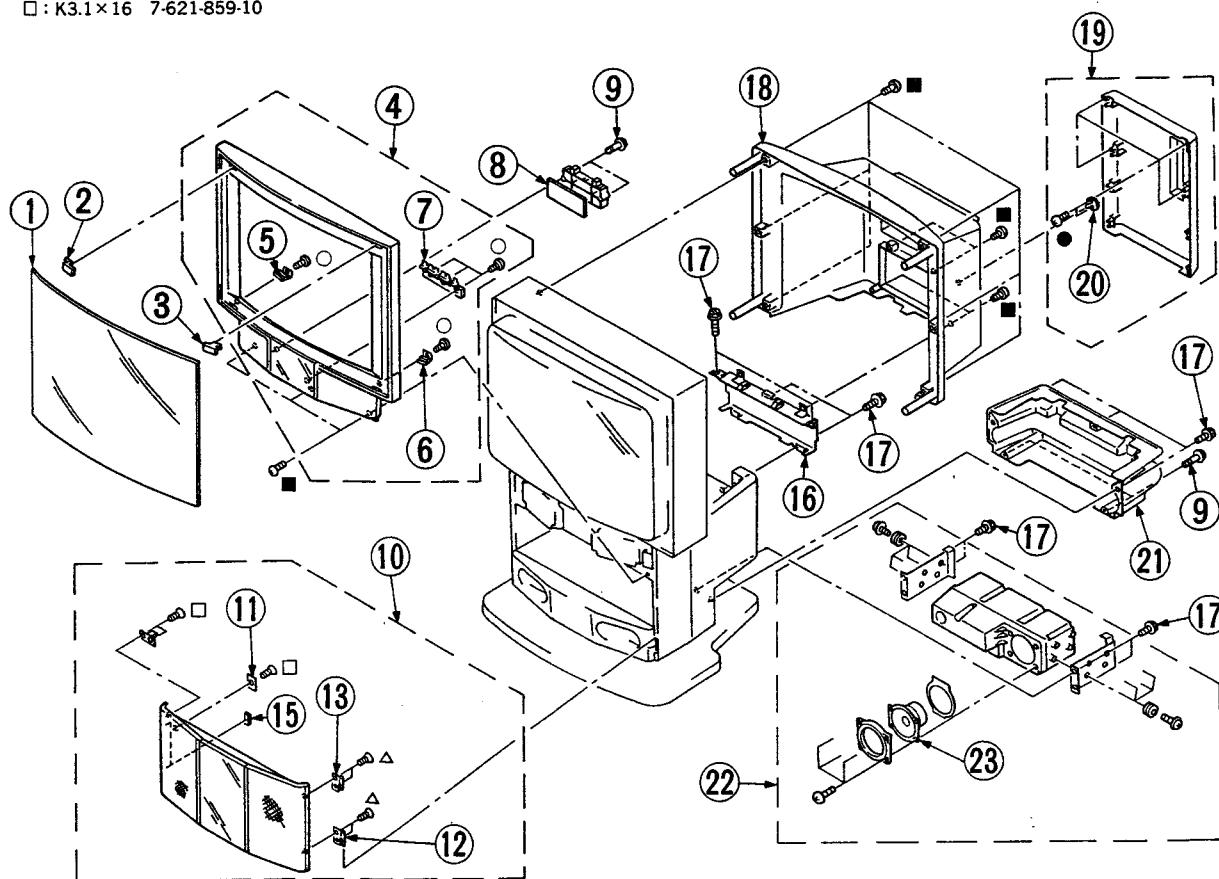
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

7-1. COVER

- : BVTP3×12 7-685-648-79
- : BVTP4×16 7-685-663-79
- : BVTP4×12 7-685-661-14
- △: K4.1×16 7-621-856-40
- : K3.1×16 7-621-859-10

Les composants identifiés par une trame et par une marque  sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION
1	4-032-192-01	FILTER, GLASS
2	4-032-158-01	STOPPER (LEFT), FILTER
3	4-032-159-01	STOPPER (RIGHT), FILTER
4	X-4029-705-1	BEZEL ASSY
5	X-4029-698-1	HOLDER ASSY (LEFT), FILTER
6	X-4029-699-1	HOLDER ASSY (RIGHT), FILTER
7	X-4029-700-1	BUTTON ASSY, MULTI
8	*1-638-780-11	H7 BOARD
9	4-319-520-11	SCREW, SPECIAL (+PW4X30)
10	X-4029-704-1	DOOR ASSY
11	4-032-137-01	CATCHER
12	4-032-140-01	HINGE (C)

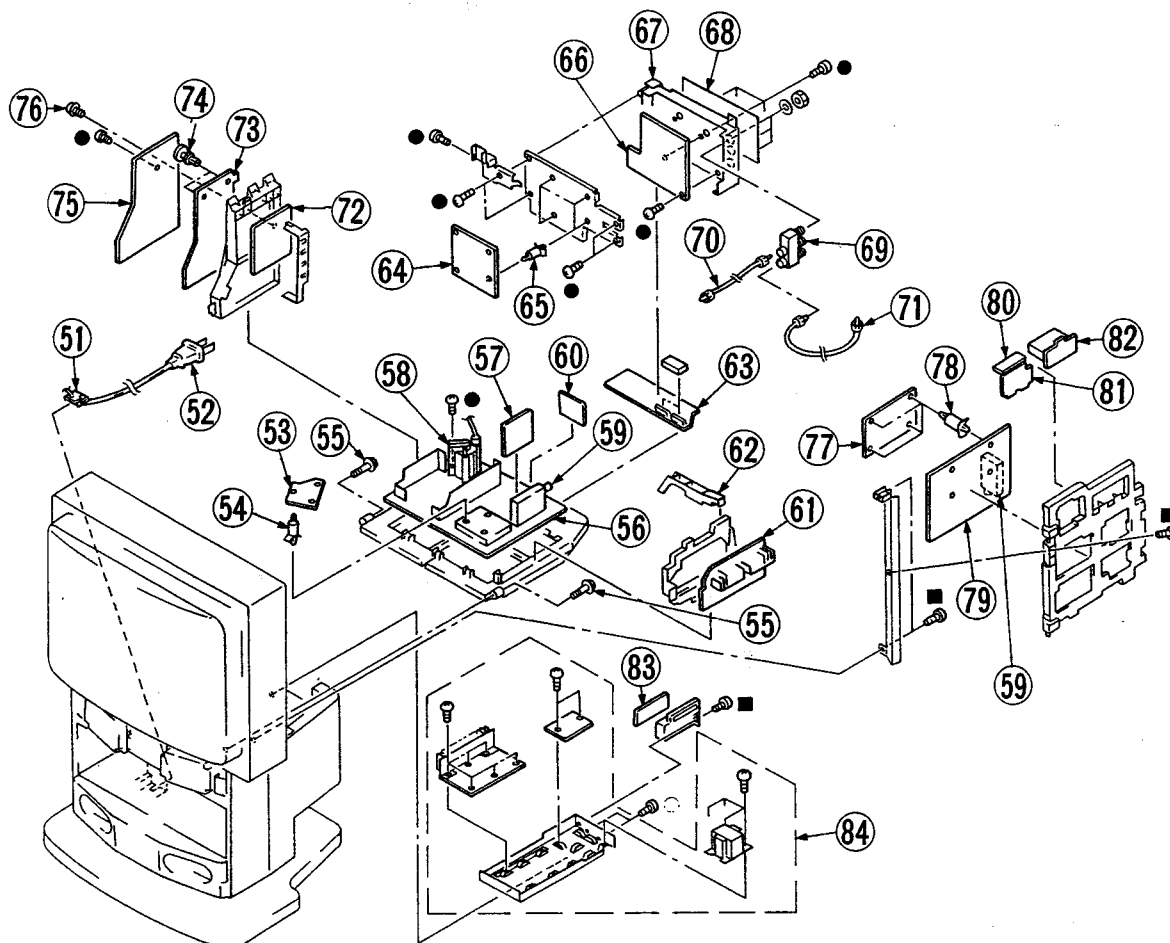
REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	13	4-032-141-01	HINGE (B)	
	15	4-032-146-01	CUSHION	
	16	*4-032-170-01	PLATE, BLIND	
5-7	17	4-378-522-01	SCREW, TAPPING, HEXAGON HEAD	
	18	X-4029-709-1	COVER ASSY, REAR	
	19	X-4029-701-1	COVER ASSY, TERMINAL	20
	20	4-843-806-00	STRIKE	
	21	*X-4029-901-1	PANEL ASSY, REAR	
11-15	22	1-544-547-11	SPEAKER BOX (12CM)	23
	23	9-900-278-01	SPEAKER (WOOFER) 12CM	

KV-29XBR85

RM-Y108

7-2. CHASSIS

- : BVTP3×12 7-685-648-79
- : BVTP4×16 7-685-663-79
- : BVTP4×12 7-685-661-14



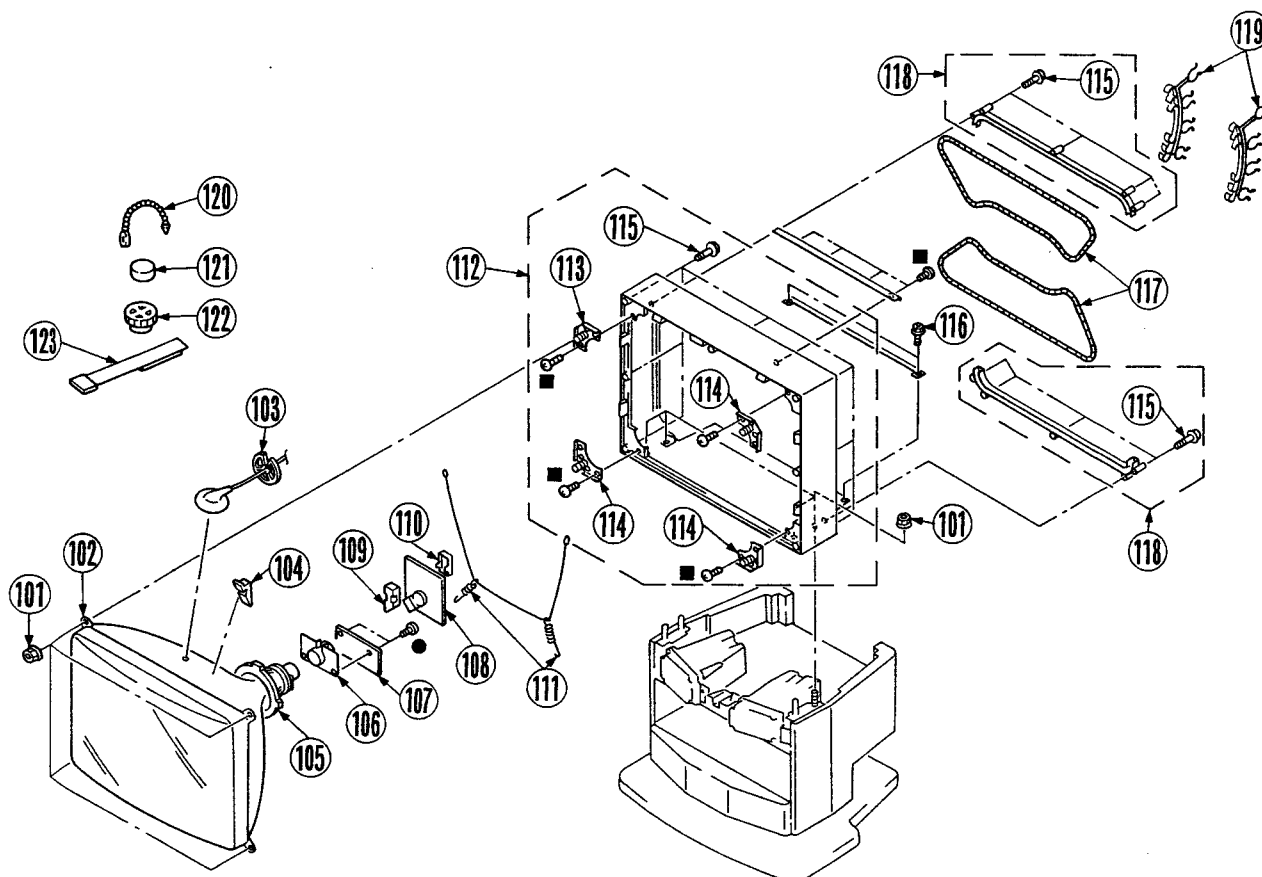
Les composants identifiés par une trame et par une marque ▲ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	▲4-388-328-01	GROMMET, AC CORD		68	4-393-414-01	LABEL, ANTENNA	
52	▲1-590-492-11	CORD, POWER (WITH CONNECTOR)		69	▲1-417-178-11	SELECTOR, ANTENNA (AS-2)	
53	*1-638-668-11	F1 BOARD		70	*1-556-945-21	CABLE, P-P	
54	*3-703-353-06	SUPPORT, PC BOARD		71	*1-557-056-31	CABLE, P-P	
55	4-319-520-11	SCREW, SPECIAL (+PW4X30)		72	*A-1345-983-A	D BOARD, COMPLETE	
56	*A-1296-855-A	A BOARD, COMPLETE	57	73	*1-629-628-11	FO BOARD	
57	*1-635-250-11	X1 BOARD		74	3-531-576-31	RIVET (DIA. 3), NYLON	
58	▲1-439-457-11	TRANSFORMER ASSY. FLXBACK		75	*A-1245-526-A	F BOARD, COMPLETE	
59	▲1-463-771-11	TUNER, PRE-TUNE (201A)		76	4-388-477-01	SCREW(3X16), TAPPING, +BV WASHER	
60	*1-638-779-11	Y BOARD		77	*A-1347-039-A	V BOARD, COMPLETE	
61	*A-1385-104-A	K BOARD, COMPLETE		78	*3-716-104-01	SUPPORT, PC	
62	4-393-435-05	BRACKET, Y		79	*A-1195-042-A	P BOARD, COMPLETE	
63	*A-1135-675-A	B BOARD, COMPLETE		80	*1-638-781-11	Y1 BOARD	
64	*A-1394-303-A	T BOARD, COMPLETE		81	8-741-681-01	IC SBX1681-01	
65	*3-703-353-04	SUPPORT, PC BOARD		82	*1-638-778-11	B1 BOARD	
66	A-1394-281-A	U BOARD, COMPLETE		83	*1-638-756-11	F2 BOARD	
67	4-393-419-01	TERMINAL BOARD, ANTENNA		84	9-900-614-01	AMPLIFIER BOARD (INCLUDING FUSE BOARD)	

7-3. PICTURE TUBE

- : BVTP3×12 7-685-648-79
 ■ : BVTP4×16 7-685-663-79



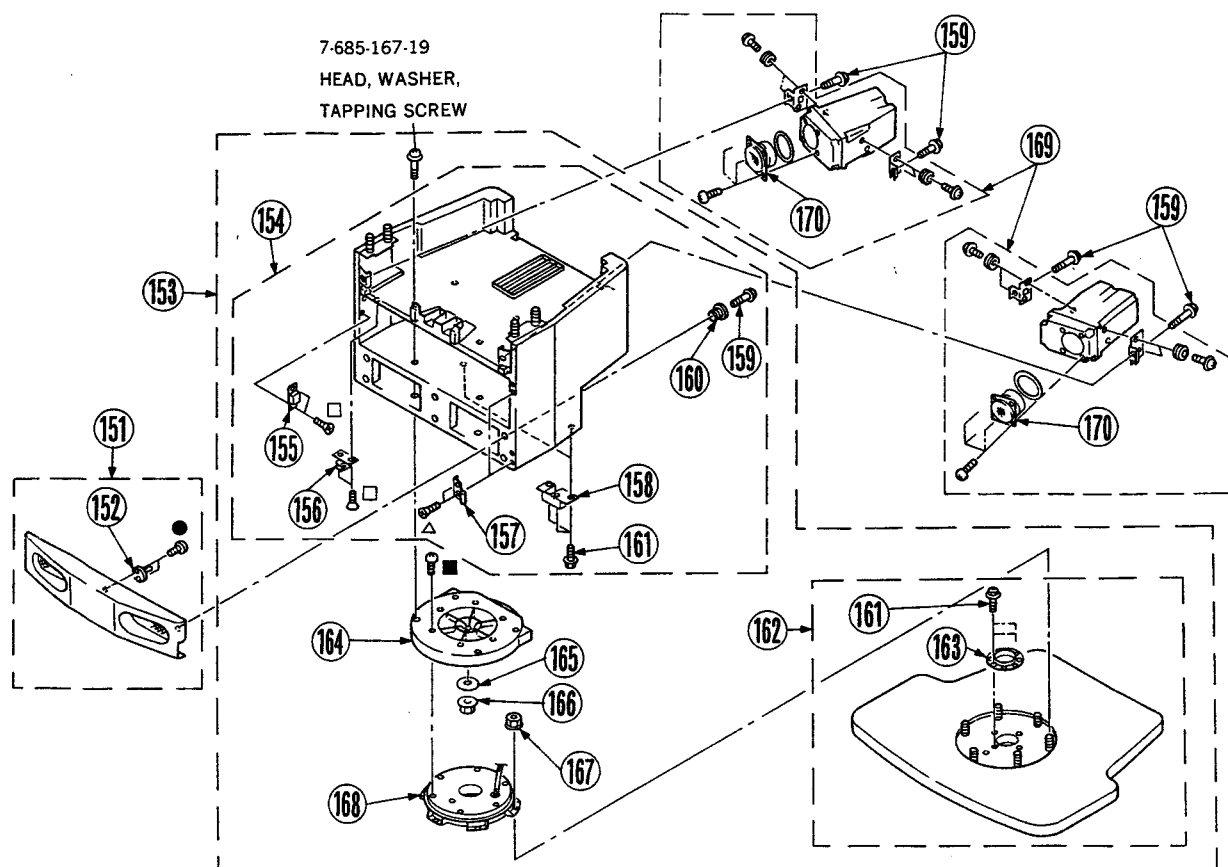
Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	4-387-204-01	NUT, SPECIAL, PICTURE TUBE		113	*4-032-154-01	BRACKET (A), PICTURE TUBE	
102	Δ 8-733-031-05	PICTURE TUBE (M74KNF10X)		114	*4-032-155-01	BRACKET (B), PICTURE TUBE	
103	*3-704-372-01	HOLDER, HV CABLE		115	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
104	3-704-495-01	SPACER, DY		116	4-378-522-01	SCREW, TAPPING, HEXAGON HEAD	
105	Δ 1-451-372-11	DEFLECTION YOKE (Y31HGA)		117	Δ 1-426-563-11	COIL, DEGAUSSING	
106	Δ 1-452-579-11	NECK ASSY, PICTURE TUBE (NA322)		118	X-4029-702-1	HOLDER ASSY, DEGAUSSING COIL	115
107	*A-1371-733-A	W BOARD, COMPLETE		119	*4-032-162-01	BAND, DEGAUSSING COIL	
108	*A-1331-146-A	C BOARD, COMPLETE		120	4-308-870-00	CLIP, LEAD WIRE	
109	*4-379-167-01	COVER (MAIN), CV		121	1-452-032-00	MAGNET, DISK; 10MM ϕ	
110	*4-379-160-01	COVER (REAR LID), CV		122	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
111	4-032-152-01	SPRING, TENSION		123	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
112	X-4029-711-1	CABINET ASSY	113-115				

7-4. RACK

- : BVTP3×12 7-685-648-79
- : BVTP4×16 7-685-663-79
- △ : K4.1×16 7-621-856-40
- : K3.1×16 7-621-859-10



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
151	*X-4029-707-1	PANEL ASSY, FRONT		152	161	*3-703-805-41	SCREW, TAPPING
152	4-843-806-00	STRIKE		162	*X-4029-703-1	BASE ASSY	161, 163
153	*A-1500-143-A	RACK COMPLETE ASSY		163	4-032-160-01	BUSHING	
154	*X-4029-706-1	RACK ASSY		164	*4-032-188-01	BASE	
155	4-032-136-01	CATCHER, MAGNET		165	4-032-145-01	SPACER	
156	4-032-138-01	CATCHER, LEVEL		166	4-032-149-01	NUT, FLANGE NYLON	
157	4-032-139-01	HINGE (A)		167	4-304-749-00	NUT, FLANGE	
158	4-032-163-01	BRACKET, PANEL		168	1-550-689-11	SWIVEL, AUTO	
159	4-319-520-11	SCREW, SPECIAL (+PW4X30)		169	1-544-546-11	SPEAKER BOX (8.7CM)	170
160	*4-349-110-00	HOLDER, SCREW		170	9-900-277-01	SPEAKER (MAIN) 8.7CM	

SECTION 8

ELECTRICAL PARTS LIST

B1 **B**

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

MF : μ F, PF : μ F

COILS

MMH : mH, UH : μ H

- The components identified by **M** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et par une marque **A** sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-638-778-11	B1 BOARD *****		C1308	1-124-893-11	ELECT 2200MF	20% 10V
				C1309	1-102-121-00	CERAMIC 0.0022MF	10% 50V
				C1310	1-124-907-11	ELECT 10MF	20% 50V
		<CONNECTOR>		C1316	1-124-589-11	ELECT 47MF	20% 16V
B1-71	*1-564-506-11	PLUG, CONNECTOR 3P		C1317	1-124-477-11	ELECT 47MF	20% 16V
B1-74	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)		C1319	1-124-477-11	ELECT 47MF	20% 16V
		<CAPACITOR>		C1321	1-124-477-11	ELECT 47MF	20% 16V
C1390	1-124-903-11	ELECT 1MF	20% 50V	C1325	1-124-477-11	ELECT 47MF	20% 16V
C1391	1-102-074-00	CERAMIC 0.001MF	10% 50V	C1326	1-136-161-00	FILM 0.047MF	5% 50V
C1392	1-124-903-11	ELECT 1MF	20% 50V	C1327	1-124-477-11	ELECT 47MF	20% 16V
C1393	1-102-074-00	CERAMIC 0.001MF	10% 50V	C1342	1-164-066-11	CERAMIC 68PF	5% 50V
		<IC>		C1343	1-124-907-11	ELECT 10MF	20% 50V
DC1390	8-741-653-01	IC SBX1653-01		C1344	1-126-233-11	ELECT 22MF	20% 25V
IC1390	8-759-929-62	IC LM7812CT		C1345	1-126-233-11	ELECT 22MF	20% 25V
IC1391	8-759-924-12	IC LM7805CT		C1346	1-126-233-11	ELECT 22MF	20% 25V
		<RESISTOR>		C1347	1-124-477-11	ELECT 47MF	20% 16V
R1390	1-216-446-00	METAL OXIDE 18 5% 2W F		C1349	1-124-477-11	ELECT 47MF	20% 16V
R1391	1-216-378-11	METAL OXIDE 5.6 5% 2W F				<DIODE>	
		*****		D1301	8-719-911-19	DIODE 1SS119	
	*A-1135-675-A	B BOARD, COMPLETE *****		D1302	8-719-911-19	DIODE 1SS119	
		<CONNECTOR>		D1303	8-719-109-97	DIODE RD6.8ES-B2	
B2	*1-564-507-11	PLUG, CONNECTOR 4P		D1304	8-719-109-97	DIODE RD6.8ES-B2	
B5	*1-568-376-11	CONNECTOR, HINGE (RECEPTACLE) 7P		D1305	8-719-109-97	DIODE RD6.8ES-B2	
B24	*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P		D1306	8-719-911-19	DIODE 1SS119	
B26	*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P				<DELAY LINE>	
B29	*1-566-942-11	CONNECTOR, HINGE (RECEPTACLE) 30P		DL1300	1-415-831-11	DELAY LINE	
B51	*1-564-506-11	PLUG, CONNECTOR 3P				<IC>	
B52	*1-564-505-11	PLUG, CONNECTOR 2P		IC1301	8-759-972-43	IC PCD8582	
B53	*1-564-508-11	PLUG, CONNECTOR 5P		IC1302	8-752-037-15	IC CXA1387S	
B73	*1-564-509-11	PLUG, CONNECTOR 6P		IC1303	8-752-035-53	IC CXA1315P	
B74	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)		IC1304	8-759-710-69	IC NJM2233BS	
		<CAPACITOR>		IC1305	8-759-710-69	IC NJM2233BS	
C1301	1-130-728-00	FILM 0.0022MF	5% 50V			<COIL>	
C1302	1-124-119-00	ELECT 330MF	20% 16V	L1301	1-410-668-11	INDUCTOR 27UH	
C1303	1-126-233-11	ELECT 22MF	20% 25V	L1302	1-410-663-31	INDUCTOR 10UH	
C1304	1-126-233-11	ELECT 22MF	20% 25V			<TRANSISTOR>	
C1305	1-126-233-11	ELECT 22MF	20% 25V	Q1301	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C1306	1-164-035-11	CERAMIC 47PF	5% 50V	Q1302	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
C1307	1-124-477-11	ELECT 47MF	20% 16V	Q1303	8-729-119-78	TRANSISTOR 2SC2785-HFE	
				Q1304	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
				Q1305	8-729-423-37	TRANSISTOR 2SC3311A-QRS	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1308	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R1370	1-249-426-11	CARBON 5.6K 5% 1/4W	
Q1309	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R1371	1-249-426-11	CARBON 5.6K 5% 1/4W	
Q1311	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R1372	1-249-423-11	CARBON 3.3K 5% 1/4W	
Q1312	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R1373	1-249-424-11	CARBON 3.9K 5% 1/4W	
Q1313	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R1374	1-249-405-11	CARBON 100 5% 1/4W	
<RESISTOR>				*****			
R1301	1-249-429-11	CARBON 10K 5% 1/4W		*A-1195-042-A	P BOARD, COMPLETE		
R1302	1-249-409-11	CARBON 220 5% 1/4W			*****		
R1303	1-249-409-11	CARBON 220 5% 1/4W		*4-334-952-00	CASE (C), SHIELD		
R1304	1-249-429-11	CARBON 10K 5% 1/4W		*4-341-751-01	EYELET (EY1,EY2)		
R1305	1-249-429-11	CARBON 10K 5% 1/4W		<CAPACITOR>			
R1306	1-249-441-11	CARBON 100K 5% 1/4W		C3101	1-124-907-11	ELECT 10MF 20% 50V	
R1307	1-249-429-11	CARBON 10K 5% 1/4W		C3102	1-124-907-11	ELECT 10MF 20% 50V	
R1308	1-249-417-11	CARBON 1K 5% 1/4W		C3103	1-124-907-11	ELECT 10MF 20% 50V	
R1309	1-249-425-11	CARBON 4.7K 5% 1/4W		C3104	1-136-157-00	FILM 0.022MF 5% 50V	
R1310	1-249-428-11	CARBON 8.2K 5% 1/4W		C3105	1-126-233-11	ELECT 22MF 20% 25V	
R1311	1-249-409-11	CARBON 220 5% 1/4W		C3106	1-126-233-11	ELECT 22MF 20% 25V	
R1312	1-249-409-11	CARBON 220 5% 1/4W		C3201	1-124-907-11	ELECT 10MF 20% 50V	
R1313	1-249-417-11	CARBON 1K 5% 1/4W		C3202	1-124-907-11	ELECT 10MF 20% 50V	
R1314	1-249-417-11	CARBON 1K 5% 1/4W		C3203	1-124-119-00	ELECT 330MF 20% 16V	
R1315	1-249-425-11	CARBON 4.7K 5% 1/4W		C3204	1-124-478-11	ELECT 100MF 20% 25V	
R1317	1-249-426-11	CARBON 5.6K 5% 1/4W		C3205	1-124-119-00	ELECT 330MF 20% 16V	
R1320	1-249-405-11	CARBON 100 5% 1/4W		C3206	1-124-472-11	ELECT 470MF 20% 10V	
R1321	1-249-405-11	CARBON 100 5% 1/4W		C3207	1-126-233-11	ELECT 22MF 20% 50V	
R1322	1-249-405-11	CARBON 100 5% 1/4W		C3208	1-124-478-11	ELECT 100MF 20% 25V	
R1323	1-249-405-11	CARBON 100 5% 1/4W		C3209	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
R1324	1-249-405-11	CARBON 100 5% 1/4W		C3210	1-101-003-00	CERAMIC 0.0047MF 50V	
R1325	1-249-405-11	CARBON 100 5% 1/4W		C3211	1-101-003-00	CERAMIC 0.0047MF 50V	
R1326	1-249-433-11	CARBON 22K 5% 1/4W		C3212	1-164-048-11	CERAMIC 12PF 5% 50V	
R1327	1-249-417-11	CARBON 1K 5% 1/4W		C3213	1-124-903-11	ELECT 1MF 20% 50V	
R1328	1-249-405-11	CARBON 100 5% 1/4W		C3214	1-164-054-11	CERAMIC 22PF 5% 50V	
R1329	1-249-405-11	CARBON 100 5% 1/4W		C3215	1-164-056-11	CERAMIC 27PF 5% 50V	
R1330	1-249-405-11	CARBON 100 5% 1/4W		C3216	1-164-060-11	CERAMIC 39PF 5% 50V	
R1331	1-249-417-11	CARBON 1K 5% 1/4W		C3217	1-126-103-11	ELECT 470MF 20% 16V	
R1332	1-249-429-11	CARBON 10K 5% 1/4W		C3218	1-101-004-00	CERAMIC 0.01MF 50V	
R1333	1-249-434-11	CARBON 27K 5% 1/4W		C3219	1-101-002-00	CERAMIC 0.0022MF 50V	
R1334	1-249-418-11	CARBON 1.2K 5% 1/4W		C3220	1-164-070-11	CERAMIC 100PF 5% 50V	
R1335	1-249-423-11	CARBON 3.3K 5% 1/4W		C3221	1-164-062-11	CERAMIC 47PF 5% 50V	
R1336	1-249-424-11	CARBON 3.9K 5% 1/4W		C3222	1-164-062-11	CERAMIC 47PF 5% 50V	
R1337	1-249-428-11	CARBON 8.2K 5% 1/4W		C3223	1-124-477-11	ELECT 47MF 20% 16V	
R1338	1-249-424-11	CARBON 3.9K 5% 1/4W		C3224	1-124-478-11	ELECT 100MF 20% 25V	
R1339	1-249-421-11	CARBON 2.2K 5% 1/4W		C3225	1-124-478-11	ELECT 100MF 20% 25V	
R1340	1-249-417-11	CARBON 1K 5% 1/4W		C3226	1-124-902-00	ELECT 0.47MF 20% 50V	
R1341	1-249-413-11	CARBON 470 5% 1/4W		C3227	1-124-477-11	ELECT 47MF 20% 16V	
R1342	1-249-435-11	CARBON 33K 5% 1/4W		C3228	1-124-927-11	ELECT 4.7MF 20% 50V	
R1343	1-249-433-11	CARBON 22K 5% 1/4W		C3230	1-164-072-11	CERAMIC 120PF 5% 50V	
R1344	1-249-417-11	CARBON 1K 5% 1/4W		C3231	1-102-978-00	CERAMIC 220PF 5% 50V	
R1345	1-249-424-11	CARBON 3.9K 5% 1/4W		C3232	1-102-114-00	CERAMIC 470PF 10% 50V	
R1346	1-249-424-11	CARBON 3.9K 5% 1/4W		C3235	1-126-101-11	ELECT 100MF 20% 16V	
R1348	1-249-434-11	CARBON 27K 5% 1/4W		C3801	1-124-477-11	ELECT 47MF 20% 16V	
R1349	1-249-424-11	CARBON 3.9K 5% 1/4W		C3802	1-124-477-11	ELECT 47MF 20% 16V	
R1350	1-249-419-11	CARBON 1.5K 5% 1/4W		C3803	1-124-477-11	ELECT 47MF 20% 16V	
R1351	1-249-409-11	CARBON 220 5% 1/4W		C3804	1-124-477-11	ELECT 47MF 20% 16V	
R1352	1-249-411-11	CARBON 330 5% 1/4W		C3805	1-164-068-11	CERAMIC 82PF 5% 50V	
R1353	1-249-405-11	CARBON 100 5% 1/4W		C3806	1-102-976-00	CERAMIC 180PF 5% 50V	
R1354	1-249-417-11	CARBON 1K 5% 1/4W		C3807	1-136-163-00	FILM 0.068MF 5% 50V	
R1355	1-249-417-11	CARBON 1K 5% 1/4W		C3808	1-164-072-11	CERAMIC 120PF 5% 50V	
R1356	1-249-405-11	CARBON 100 5% 1/4W		C3809	1-164-056-11	CERAMIC 27PF 5% 50V	
R1357	1-249-418-11	CARBON 1.2K 5% 1/4W		C3810	1-164-058-11	CERAMIC 33PF 5% 50V	
R1358	1-249-417-11	CARBON 1K 5% 1/4W		C3811	1-124-907-11	ELECT 10MF 20% 50V	
R1359	1-249-429-11	CARBON 10K 5% 1/4W					
R1362	1-249-427-11	CARBON 6.8K 5% 1/4W					

P

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3812	1-136-163-00	FILM 0.068MF 5%	50V	<IC>			
C3813	1-136-169-00	FILM 0.22MF 5%	50V	IC3201	Δ 8-759-142-04	IC UPT7895MF	
C3814	1-101-004-00	CERAMIC 0.01MF	50V	IC3202	8-759-512-50	IC MB88733-137	
C3815	1-101-004-00	CERAMIC 0.01MF	50V	IC3203	Δ 8-759-924-12	IC LM7805CT	
C3816	1-164-068-11	CERAMIC 82PF 5%	50V	IC3204	8-759-803-25	IC CXK1006L	
C3817	1-164-066-11	CERAMIC 68PF 5%	50V	IC3205	8-759-140-53	IC UPD4053BC	
C3818	1-102-108-00	CERAMIC 150PF 10%	50V	IC3801	8-752-006-12	IC CX20061	
C3819	1-164-068-11	CERAMIC 82PF 5%	50V	IC3802	8-752-006-12	IC CX20061	
C3820	1-124-477-11	ELECT 47MF 20%	16V	IC3803	8-752-033-32	IC CXA1228S	
C3821	1-101-004-00	CERAMIC 0.01MF	50V	IC3805	8-752-035-53	IC CXA1315P	
C3822	1-164-048-11	CERAMIC 12PF 5%	50V	<IF BLOCK>			
C3823	1-164-054-11	CERAMIC 22PF 5%	50V	IF3201	Δ 1-464-755-21	IF BLOCK (1FB-450A)	
C3824	1-124-903-11	ELECT 1MF 20%	50V	<COIL>			
C3825	1-136-153-00	FILM 0.01MF 5%	50V	L3201	1-408-408-00	INDUCTOR 8.2UH	
C3826	1-101-004-00	CERAMIC 0.01MF	50V	L3202	1-408-421-00	INDUCTOR 100UH	
C3827	1-124-907-11	ELECT 10MF 20%	50V	L3203	1-408-413-00	INDUCTOR 22UH	
C3828	1-164-048-11	CERAMIC 12PF 5%	50V	L3204	1-408-409-00	INDUCTOR 10UH	
C3829	1-101-001-00	CERAMIC 0.001MF	50V	L3801	1-408-415-00	INDUCTOR 33UH	
C3830	1-136-172-00	FILM 0.39MF 5%	50V	L3802	1-408-412-00	INDUCTOR 18UH	
C3831	1-136-172-00	FILM 0.39MF 5%	50V	L3803	1-408-421-00	INDUCTOR 100UH	
C3832	1-136-172-00	FILM 0.39MF 5%	50V	L3804	1-408-421-00	INDUCTOR 100UH	
C3833	1-164-048-11	CERAMIC 12PF 5%	50V	L3805	1-408-409-00	INDUCTOR 10UH	
C3849	1-164-064-11	CERAMIC 56PF 5%	50V	L3806	1-408-421-00	INDUCTOR 100UH	
C3850	1-102-114-00	CERAMIC 470PF 10%	50V	L3807	1-408-424-00	INDUCTOR 180UH	
C3851	1-136-159-00	FILM 0.033MF 5%	50V	L3808	1-408-424-00	INDUCTOR 180UH	
C3852	1-124-477-11	ELECT 47MF 20%	16V	L3810	1-408-409-00	INDUCTOR 10UH	
C3853	1-124-907-11	ELECT 10MF 20%	50V	L3811	1-408-409-00	INDUCTOR 10UH	
C3854	1-136-169-00	FILM 0.22MF 5%	50V	<CONNECTOR>			
C3855	1-136-161-00	FILM 0.047MF 5%	50V	P1	*1-566-057-11	PIN, CONNECTOR 5P	
C3856	1-124-907-11	ELECT 10MF 20%	50V	P2	*1-566-061-11	PIN, CONNECTOR 9P	
C3857	1-136-165-00	FILM 0.1MF 5%	50V	P3	*1-566-060-11	PIN, CONNECTOR 8P	
C3858	1-124-903-11	ELECT 1MF 20%	50V	P4	*1-564-511-11	PLUG, CONNECTOR 8P	
C3862	1-130-475-00	MYLAR 0.0022MF 5%	50V	P6	*1-560-125-00	PLUG, CONNECTOR (2.5MM PITCH)	
C3863	1-164-072-11	CERAMIC 120PF 5%	50V	P14	*1-564-511-11	PLUG, CONNECTOR 8P	
C3864	1-124-903-11	ELECT 1MF 20%	50V	P31	*1-564-509-11	PLUG, CONNECTOR 6P	
C3865	1-164-068-11	CERAMIC 82PF 5%	50V	P32	*1-564-508-11	PLUG, CONNECTOR 5P	
C3866	1-124-907-11	ELECT 10MF 20%	50V	P63/0	*1-564-507-11	PLUG, CONNECTOR 4P	
C3867	1-124-907-11	ELECT 10MF 20%	50V	P63/1	*1-564-507-11	PLUG, CONNECTOR 4P	
C3872	1-124-902-00	ELECT 0.47MF 20%	50V	P71	*1-564-506-11	PLUG, CONNECTOR 3P	
C3873	1-136-161-00	FILM 0.047MF 5%	50V	P72	*1-564-513-11	PLUG, CONNECTOR 10P	
C3874	1-124-907-11	ELECT 10MF 20%	50V	P73	*1-564-509-11	PLUG, CONNECTOR 6P	
C3875	1-101-004-00	CERAMIC 0.01MF	50V	<TRANSISTOR>			
C3876	1-164-070-11	CERAMIC 100PF 5%	50V	Q3101	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
<NETWORK>				Q3102	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
CP3201	1-236-493-11	NETWORK, RES, THICK FILM		Q3103	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
CP3202	1-236-490-11	NETWORK, RES, THICK FILM		Q3201	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
<TRIMMER>				Q3202	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
CV3801	1-141-181-11	CAP. TRIMMER		Q3203	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
<DIODE>				Q3204	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D3201	8-719-110-78	DIODE RD33ES-B2		Q3205	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D3203	8-719-200-02	DIODE 10E2		Q3206	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
D3205	8-719-119-97	DIODE RD3.6ES-L1		Q3207	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
D3207	8-719-911-19	DIODE 1SS119		Q3208	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
<DELAY LINE>				Q3209	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
DL3801	1-415-240-00	DELAY LINE		Q3801	8-729-423-37	TRANSISTOR 2SC3311A-QRS	

KV-29XBR85

RM-Y108

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Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q3802	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R3211	1-249-411-11	CARBON 330 5% 1/4W	
Q3803	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R3212	1-249-409-11	CARBON 220 5% 1/4W	
Q3804	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R3213	1-249-409-11	CARBON 220 5% 1/4W	
Q3805	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R3214	1-249-417-11	CARBON 1K 5% 1/4W	
Q3806	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3215	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q3807	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3216	1-249-420-11	CARBON 1.8K 5% 1/4W	
Q3808	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3217 1-215-896-00 METAL OXIDE 4.7K 5% 1/4W			
Q3809	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3218	1-249-417-11	CARBON 1K 5% 1/4W	
Q3810	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3219	1-249-429-11	CARBON 10K 5% 1/4W	
Q3811	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3220	1-249-429-11	CARBON 10K 5% 1/4W	
Q3812	8-729-900-89	TRANSISTOR DTC144ES		R3221	1-249-440-11	CARBON 82K 5% 1/4W	
Q3813	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3222	1-247-891-00	CARBON 330K 5% 1/4W	
Q3814	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R3223	1-249-429-11	CARBON 10K 5% 1/4W	
Q3815	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R3224	1-249-417-11	CARBON 1K 5% 1/4W	
Q3816	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3225	1-249-417-11	CARBON 1K 5% 1/4W	
Q3817	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3226	1-249-417-11	CARBON 1K 5% 1/4W	
Q3818	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3227	1-249-409-11	CARBON 220 5% 1/4W	
Q3819	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3228	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q3820	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3229	1-249-409-11	CARBON 220 5% 1/4W	
Q3821	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3230	1-249-409-11	CARBON 220 5% 1/4W	
Q3822	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R3231	1-249-429-11	CARBON 10K 5% 1/4W	
Q3823	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R3232	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q3824	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3233	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q3825	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R3234	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q3826	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R3235	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q3827	8-729-600-12	TRANSISTOR 2SK108-C		R3236	1-249-429-11	CARBON 10K 5% 1/4W	
Q3828	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R3237	1-249-417-11	CARBON 1K 5% 1/4W	
Q3829	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R3238	1-249-429-11	CARBON 10K 5% 1/4W	
<RESISTOR>				R3239 1-215-446-01 METAL OXIDE 10K 5% 1/4W			
R3101	1-249-405-11	CARBON 100 5% 1/4W		R3240 1-215-416-01 METAL OXIDE 10K 5% 1/4W			
R3102	1-249-405-11	CARBON 100 5% 1/4W		R3241 1-215-447-01 METAL OXIDE 22K 5% 1/4W			
R3103	1-249-405-11	CARBON 100 5% 1/4W		R3242	1-249-429-11	CARBON 10K 5% 1/4W	
R3104	1-249-441-11	CARBON 100K 5% 1/4W		R3243	1-249-425-11	CARBON 4.7K 5% 1/4W	
R3105	1-249-405-11	CARBON 100 5% 1/4W		R3244	1-249-421-11	CARBON 2.2K 5% 1/4W	
R3106	1-249-441-11	CARBON 100K 5% 1/4W		R3245	1-249-425-11	CARBON 4.7K 5% 1/4W	
R3107	1-247-895-00	CARBON 470K 5% 1/4W		R3246	1-249-433-11	CARBON 22K 5% 1/4W	
R3108	1-249-441-11	CARBON 100K 5% 1/4W		R3247	1-249-414-11	CARBON 560 5% 1/4W	
R3109	1-249-425-11	CARBON 4.7K 5% 1/4W		R3248	1-249-416-11	CARBON 820 5% 1/4W	
R3110	1-249-405-11	CARBON 100 5% 1/4W		R3249	1-249-393-11	CARBON 10 5% 1/4W	
R3111	1-249-425-11	CARBON 4.7K 5% 1/4W		R3251	1-249-417-11	CARBON 1K 5% 1/4W	
R3112	1-249-405-11	CARBON 100 5% 1/4W		R3253	1-249-417-11	CARBON 1K 5% 1/4W	
R3113	1-249-405-11	CARBON 100 5% 1/4W		R3254	1-249-424-11	CARBON 3.9K 5% 1/4W	
R3114	1-249-441-11	CARBON 100K 5% 1/4W		R3255	1-249-421-11	CARBON 2.2K 5% 1/4W	
R3115	1-249-425-11	CARBON 4.7K 5% 1/4W		R3256	1-249-409-11	CARBON 220 5% 1/4W	
R3116	1-249-441-11	CARBON 100K 5% 1/4W		R3257	1-249-409-11	CARBON 220 5% 1/4W	
R3117	1-249-441-11	CARBON 100K 5% 1/4W		R3258	1-249-441-11	CARBON 100K 5% 1/4W	
R3118	1-249-441-11	CARBON 100K 5% 1/4W		R3260	1-249-416-11	CARBON 820 5% 1/4W	
R3119	1-247-895-00	CARBON 470K 5% 1/4W		R3261	1-249-414-11	CARBON 560 5% 1/4W	
R3120	1-249-405-11	CARBON 100 5% 1/4W		R3262	1-249-414-11	CARBON 560 5% 1/4W	
R3121	1-249-423-11	CARBON 3.3K 5% 1/4W		R3263	1-249-419-11	CARBON 1.5K 5% 1/4W	
R3122	1-249-432-11	CARBON 18K 5% 1/4W		R3264	1-249-414-11	CARBON 560 5% 1/4W	
R3123	1-249-405-11	CARBON 100 5% 1/4W		R3265	1-249-418-11	CARBON 1.2K 5% 1/4W	
R3124	1-249-405-11	CARBON 100 5% 1/4W		R3266	1-249-419-11	CARBON 1.5K 5% 1/4W	
R3200	1-249-416-11	CARBON 820 5% 1/4W		R3267	1-249-409-11	CARBON 220 5% 1/4W	
R3201	1-249-417-11	CARBON 1K 5% 1/4W		R3268	1-249-411-11	CARBON 330 5% 1/4W	
R3202 1-215-884-01 METAL OXIDE 22K 5% 1/4W				R3269	1-247-901-11	CARBON 820K 5% 1/4W	
R3203	1-249-426-11	CARBON 5.6K 5% 1/4W		R3270	1-249-405-11	CARBON 100 5% 1/4W	
R3204 1-215-884-01 METAL OXIDE 4.7K 5% 1/4W				R3271	1-249-417-11	CARBON 1K 5% 1/4W	
R3206	1-215-458-00	METAL 36K 1% 1/4W		R3272	1-249-421-11	CARBON 2.2K 5% 1/4W	
R3207	1-249-433-11	CARBON 22K 5% 1/4W		R3273	1-249-417-11	CARBON 1K 5% 1/4W	
R3208	1-249-433-11	CARBON 22K 5% 1/4W		R3274	1-249-405-11	CARBON 100 5% 1/4W	
R3209	1-249-419-11	CARBON 1.5K 5% 1/4W		R3275	1-249-417-11	CARBON 1K 5% 1/4W	
				R3276	1-249-417-11	CARBON 1K 5% 1/4W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3277	1-249-425-11	CARBON	4.7K 5% 1/4W	R3850	1-249-424-11	CARBON	3.9K 5% 1/4W
R3278	1-249-429-11	CARBON	10K 5% 1/4W	R3851	1-249-418-11	CARBON	1.2K 5% 1/4W
R3279	1-249-428-11	CARBON	8.2K 5% 1/4W	R3852	1-249-416-11	CARBON	820 5% 1/4W
R3280	1-249-437-11	CARBON	47K 5% 1/4W	R3853	1-249-420-11	CARBON	1.8K 5% 1/4W
R3281	Δ 1-216-450-91	METAL OXIDE	82 5% 2W	R3854	1-249-422-11	CARBON	2.7K 5% 1/4W
R3282	1-249-424-11	CARBON	3.9K 5% 1/4W	R3855	1-249-424-11	CARBON	3.9K 5% 1/4W
R3283	1-249-417-11	CARBON	1K 5% 1/4W	R3856	1-249-419-11	CARBON	1.5K 5% 1/4W
R3284	1-249-419-11	CARBON	1.5K 5% 1/4W	R3857	1-249-423-11	CARBON	3.3K 5% 1/4W
R3286	1-249-417-11	CARBON	1K 5% 1/4W	R3858	1-249-424-11	CARBON	3.9K 5% 1/4W
R3287	1-215-421-00	METAL	1K 1% 1/4W	R3859	1-249-424-11	CARBON	3.9K 5% 1/4W
R3288	1-249-417-11	CARBON	1K 5% 1/4W	R3860	1-249-422-11	CARBON	2.7K 5% 1/4W
R3289	1-249-414-11	CARBON	560 5% 1/4W	R3861	1-249-422-11	CARBON	2.7K 5% 1/4W
R3290	1-249-427-11	CARBON	6.8K 5% 1/4W	R3862	1-249-417-11	CARBON	1K 5% 1/4W
R3293	1-249-429-11	CARBON	10K 5% 1/4W	R3863	1-249-418-11	CARBON	1.2K 5% 1/4W
R3294	1-249-437-11	CARBON	47K 5% 1/4W	R3864	1-249-427-11	CARBON	6.8K 5% 1/4W
R3295	1-249-421-11	CARBON	2.2K 5% 1/4W	R3865	1-249-436-11	CARBON	39K 5% 1/4W
R3296	1-249-424-11	CARBON	3.9K 5% 1/4W	R3866	1-249-422-11	CARBON	2.7K 5% 1/4W
R3297	1-249-415-11	CARBON	680 5% 1/4W	R3872	1-249-435-11	CARBON	33K 5% 1/4W
R3800	1-259-884-11	CARBON	4.7M 5% 1/4W	R3873	1-249-429-11	CARBON	10K 5% 1/4W
R3801	1-259-880-11	CARBON	2.2M 5% 1/4W	R3874	1-249-424-11	CARBON	3.9K 5% 1/4W
R3802	1-249-429-11	CARBON	10K 5% 1/4W	R3875	1-249-429-11	CARBON	10K 5% 1/4W
R3803	1-249-429-11	CARBON	10K 5% 1/4W	R3876	1-249-439-11	CARBON	68K 5% 1/4W
R3804	1-249-429-11	CARBON	10K 5% 1/4W	R3877	1-249-417-11	CARBON	1K 5% 1/4W
R3805	1-249-441-11	CARBON	100K 5% 1/4W	R3878	1-249-433-11	CARBON	22K 5% 1/4W
R3807	1-249-419-11	CARBON	1.5K 5% 1/4W	R3891	1-247-889-00	CARBON	270K 5% 1/4W
R3808	1-249-419-11	CARBON	1.5K 5% 1/4W	R3894	1-249-409-11	CARBON	220 5% 1/4W
R3809	1-249-417-11	CARBON	1K 5% 1/4W	R3895	1-249-409-11	CARBON	220 5% 1/4W
R3810	1-249-420-11	CARBON	1.8K 5% 1/4W	R3896	1-249-425-11	CARBON	4.7K 5% 1/4W
R3811	1-249-414-11	CARBON	560 5% 1/4W				
R3812	1-249-420-11	CARBON	1.8K 5% 1/4W				
R3813	1-249-417-11	CARBON	1K 5% 1/4W				
R3814	1-249-417-11	CARBON	1K 5% 1/4W				
R3815	1-247-899-11	CARBON	680K 5% 1/4W				
R3816	1-247-887-00	CARBON	220K 5% 1/4W				
R3817	1-249-423-11	CARBON	3.3K 5% 1/4W				
R3818	1-249-423-11	CARBON	3.3K 5% 1/4W				
R3819	1-249-435-11	CARBON	33K 5% 1/4W				
R3820	1-249-417-11	CARBON	1K 5% 1/4W				
R3821	1-249-429-11	CARBON	10K 5% 1/4W				
R3822	1-249-417-11	CARBON	1K 5% 1/4W				
R3823	1-249-417-11	CARBON	1K 5% 1/4W				
R3824	1-249-413-11	CARBON	470 5% 1/4W				
R3825	1-249-417-11	CARBON	1K 5% 1/4W				
R3827	1-249-409-11	CARBON	220 5% 1/4W				
R3828	1-249-405-11	CARBON	100 5% 1/4W				
R3830	1-249-433-11	CARBON	22K 5% 1/4W				
R3831	1-249-431-11	CARBON	15K 5% 1/4W				
R3832	1-249-431-11	CARBON	15K 5% 1/4W				
R3833	1-249-428-11	CARBON	8.2K 5% 1/4W				
R3834	1-249-426-11	CARBON	5.6K 5% 1/4W				
R3835	1-249-431-11	CARBON	15K 5% 1/4W				
R3836	1-249-413-11	CARBON	470 5% 1/4W				
R3837	1-249-421-11	CARBON	2.2K 5% 1/4W				
R3838	1-249-425-11	CARBON	4.7K 5% 1/4W				
R3839	1-249-417-11	CARBON	1K 5% 1/4W				
R3840	1-249-420-11	CARBON	1.8K 5% 1/4W				
R3841	1-249-415-11	CARBON	680 5% 1/4W				
R3842	1-249-419-11	CARBON	1.5K 5% 1/4W				
R3843	1-249-425-11	CARBON	4.7K 5% 1/4W				
R3844	1-249-411-11	CARBON	330 5% 1/4W				
R3845	1-249-425-11	CARBON	4.7K 5% 1/4W				
R3847	1-249-421-11	CARBON	2.2K 5% 1/4W				
R3848	1-249-421-11	CARBON	2.2K 5% 1/4W				
R3849	1-249-429-11	CARBON	10K 5% 1/4W				

<VARIABLE RESISTOR>							
RV3101	1-238-016-11	RES. ADJ.	CARBON 10K				
RV3801	1-238-015-11	RES. ADJ.	CARBON 4.7K				
RV3802	1-228-995-00	RES. ADJ.	CARBON 22K				
RV3804	1-238-017-11	RES. ADJ.	CARBON 22K				
RV3805	1-228-989-00	RES. ADJ.	CARBON 470				
RV3806	1-228-989-00	RES. ADJ.	CARBON 470				
<TUNER>							
TU3201	Δ 1-463-771-11	TUNER	ET (RTP-201A)				
<CRYSTAL>							
X3201	1-567-192-11	OSCILLATOR	CERAMIC 4MHz				
X3801	1-567-505-11	OSCILLATOR	CRYSTAL 3.58MHz				

*1-638-668-11 F1 BOARD							

<CAPACITOR>							
C2601	1-136-165-00	FILM	0.1MF 5% 50V				
C2602	Δ 1-102-125-91	CERAMIC	0.0047MF 10% 50V				
C2603	Δ 1-102-125-91	CERAMIC	0.0047MF 10% 50V				
C2604	1-124-480-11	ELECT	470MF 20% 25V				
C2605	1-124-480-11	ELECT	470MF 20% 25V				
C2606	1-124-478-11	ELECT	100MF 20% 25V				
C2608	1-101-005-00	CERAMIC	0.022MF 5% 50V				
C2609	1-136-165-00	FILM	0.1MF 5% 50V				
C2610	1-101-005-00	CERAMIC	0.022MF 5% 50V				
C2611	1-101-006-00	CERAMIC	0.047MF 5% 50V				

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RM-Y108

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F

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C2612	1-102-129-00	CERAMIC	0.01MF 10% 50V	F2-7	*1-580-843-11	PIN, CONNECTOR (POWER)	
C2613	1-124-477-11	ELECT	47MF 20% 16V				
<DIODE>				<TRANSISTOR>			
D2601	8-719-911-19	DIODE 1SS119		Q2651	8-729-140-96	TRANSISTOR 2SD774-34	
D2602	Δ 8-719-521-10	DIODE S1VB10-S					
<CONNECTOR>				<RESISTOR>			
F1-3	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)		R2651	1-249-417-11	CARBON 1K 5% 1/4W	
F1-62	*1-564-508-11	PLUG, CONNECTOR 5P		R2652	1-249-433-11	CARBON 22K 5% 1/4W	
F1-64	*1-564-511-11	PLUG, CONNECTOR 8P					
F1-77	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		<RELAY>			
<IC>				RL2651	Δ 1-515-626-11	RELAY	
IC2601	8-759-112-06	IC UPC78N05H		<TRANSFORMER>			
<TRANSISTOR>				T2651	Δ 1-424-220-11	TRANSFORMER, LINE FILTER	
Q2601	8-729-423-37	TRANSISTOR 2SC3311A-QRS		<THERMISTOR>			
Q2602	8-729-423-37	TRANSISTOR 2SC3311A-QRS		THP265	Δ 1-808-081-23	THERMISTOR, POSITIVE	
<RESISTOR>				*****			
R2601	1-249-440-11	CARBON 82K 5% 1/4W		*A-1245-526-A	F BOARD, COMPLETE		
R2602	1-215-882-00	METAL OXIDE 22 5% 2W F			*****		
R2603	1-216-425-11	METAL OXIDE 56 5% 1W F		1-533-190-11	FUSE CLIP		
R2604	1-249-443-11	CARBON 0.47 5% 1/4W F		*1-533-189-11	HOLDER, FUSE		
R2605	1-249-429-11	CARBON 10K 5% 1/4W		*1-565-514-11	SOCKET, CONNECTOR 2P		
R2606	1-249-423-11	CARBON 3.3K 5% 1/4W		*4-341-751-01	EYELET (EY8-EY27)		
R2607	1-249-434-11	CARBON 27K 5% 1/4W		*4-341-752-01	EYELET (EY1-EY7, EY28-38)		
R2608	1-249-441-11	CARBON 100K 5% 1/4W		<CAPCITOR>			
R2609	1-249-435-11	CARBON 33K 5% 1/4W		C601	Δ 1-136-311-51	FILM 0.47MF 20% 125V	
R2610	1-249-429-11	CARBON 10K 5% 1/4W		C603	1-106-224-00	MYLAR 0.15MF 10% 100V	
*****				C604	1-101-821-00	CERAMIC 0.0022MF 500V	
*1-638-756-11	F2 BOARD			C605	Δ 1-162-576-51	CERAMIC 0.001MF 10% 400V	
	*****			C606	Δ 1-161-953-52	CERAMIC 0.0047MF 20% 400V	
*1-533-189-11	HOLDER, FUSE			C607	1-162-599-12	CERAMIC 0.0047MF 20% 400V	
<CAPACITOR>				C610	1-124-477-11	ELECT 47MF 20% 16V	
C2651	1-124-477-11	ELECT 47MF 20% 16V		C611	1-124-122-11	ELECT 100MF 20% 25V	
C2653	Δ 1-136-311-11	FILM 0.47MF 20% 125V		C613	1-124-122-11	ELECT 100MF 20% 25V	
C2654	1-136-346-11	FILM 0.22MF 20% 125V		C616	Δ 1-136-311-51	FILM 0.47MF 20% 125V	
<DIODE>				C617	1-101-821-00	CERAMIC 0.0022MF 500V	
D2651	8-719-911-55	DIODE U05G		C618	1-124-477-11	ELECT 47MF 20% 16V	
<FUSE>				C622	1-125-538-11	ELECT (BLOCK) 1000MF 20% 200V	
F2651	Δ 1-532-748-11	FUSE, GLASS TUBE 6.3A/125V		C650	1-161-830-00	CERAMIC 0.0047MF 500V	
<CONNECTOR>				C651	1-124-799-11	ELECT 2.2MF 20% 160V	
F2-2	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		C652	Δ 1-124-122-91	ELECT 100MF 20% 50V	
F2-3	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)		C653	1-102-244-00	CERAMIC 220PF 10% 500V	
F2-4	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		C654	1-124-126-00	ELECT 47MF 20% 25V	
F2-5	1-506-348-99	PIN, CONNECTOR 3P		C655	1-136-173-00	FILM 0.47MF 5% 50V	
F2-6	*1-580-843-11	PIN, CONNECTOR (POWER)		C656	1-106-383-00	MYLAR 0.047MF 10% 100V	
				C657	1-136-601-11	FILM 0.01MF 10% 630V	
				C658	1-162-114-00	CERAMIC 0.0047MF 20% 2KV	
				C660	1-162-599-12	CERAMIC 0.0047MF 20% 400V	
				C661	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
				C663	1-124-618-11	ELECT 2200MF 20% 35V	
				C664	1-126-588-11	ELECT 1000MF 20% 16V	
				C665	1-124-602-00	ELECT 2200MF 20% 25V	
				C666	1-125-564-11	ELECT (BLOCK) 1000MF 20% 160V	
				C667	1-102-129-00	CERAMIC 0.01MF 10% 50V	

F

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C668	1-162-116-00	CERAMIC	680PF 10% 2KV	<TRANSISTOR>			
C672	1-124-122-11	ELECT	100MF 20% 25V	Q602	8-729-140-96	TRANSISTOR 2SD774-34	
C673	1-102-129-00	CERAMIC	0.01MF 10% 50V	Q603	8-729-200-17	TRANSISTOR 2SA1091-0	
C674	1-124-126-00	ELECT	47MF 20% 16V	Q604	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
<DIODE>				Q651	8-729-177-43	TRANSISTOR 2SD774-34	
D601	8-719-305-07	DIODE RBV-106H		Q652	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
D602	8-719-911-55	DIODE U05G		Q653	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
D603	8-719-911-55	DIODE U05G		Q654	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
D604	8-719-911-19	DIODE 1SS119		<RESISTOR>			
D605	8-719-911-55	DIODE U05G		R601	1-202-723-51	SOLID 2.2M 10% 1/2W	
D607	8-719-911-19	DIODE 1SS119		R602	1-205-885-21	WIREWOUND 1.5 5% 2W	
D651	8-719-911-19	DIODE 1SS119		R603	1-215-885-00	METAL OXIDE 68 5% 2W	F
D652	8-719-300-33	DIODE RU-3AM		R605	1-202-723-51	SOLID 2.2M 10% 1/2W	
D653	8-719-311-31	DIODE RU-1P		R606	1-215-885-00	METAL OXIDE 68 5% 2W	F
D657	8-719-500-67	DIODE D5KC40H		R607	1-249-426-11	CARBON 5.6K 5% 1/4W	
D658	8-719-301-45	DIODE RK14		R608	1-247-887-00	CARBON 220K 5% 1/4W	
D659	8-719-500-41	DIODE D8LCA20		R609	1-249-421-11	CARBON 2.2K 5% 1/4W	
D660	8-719-301-64	DIODE RU4DS		R610	1-249-417-11	CARBON 1K 5% 1/4W	
<CONNECTOR>				R611	1-207-645-00	WIREWOUND 0.47 10% 3W	F
F1	*1-580-843-11	PIN, CONNECTOR (POWER)		R612	1-249-417-11	CARBON 1K 5% 1/4W	F
F2	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		R613	1-249-441-11	CARBON 100K 5% 1/4W	
F4	*1-559-991-21	CONNECTOR ASSY 1P		R614	1-249-429-11	CARBON 10K 5% 1/4W	
F5	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		R615	1-247-895-00	CARBON 470K 5% 1/4W	
F5A	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		R616	1-249-417-11	CARBON 1K 5% 1/4W	
F5B	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		R617	1-249-414-11	CARBON 560 5% 1/4W	
F5C	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		R619	1-216-341-51	METAL OXIDE 0.22 5% 1W	F
F6	*1-564-506-11	PLUG, CONNECTOR 3P		R620	1-216-444-11	METAL OXIDE 82K 5% 1W	F
F61	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P		R621	1-249-429-11	CARBON 10K 5% 1/4W	
F62	*1-564-508-11	PLUG, CONNECTOR 5P		R622	1-249-423-11	CARBON 3.3K 5% 1/4W	
F64	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		R623	1-216-457-00	METAL OXIDE 1.2K 5% 2W	F
F66	*1-568-378-21	PIN, CONNECTOR 3P		R624	1-216-458-11	METAL OXIDE 1.8K 5% 2W	F
F83	*1-564-505-11	PLUG, CONNECTOR 2P		R651	1-207-612-00	WIREWOUND 0.1 10% 2W	F
<FUSE>				R652	1-207-612-00	WIREWOUND 0.1 10% 2W	F
F601	1-532-748-11	FUSE, GLASS TUBE 6.3A/125V		R653	1-215-893-11	METAL OXIDE 1.5K 5% 2W	F
<COIL>				R654	1-205-945-11	WIREWOUND 33 10% 7W	F
FB655	1-410-397-21	FERRITE BEAD INDUCTOR		R655	1-202-843-11	SOLID 270K 10% 1/2W	F
FB658	1-410-396-41	FERRITE BEAD INDUCTOR		R660	1-249-414-51	CARBON 560 5% 1/4W	F
FB659	1-410-397-21	FERRITE BEAD INDUCTOR		R661	1-249-413-11	CARBON 470 5% 1/4W	
FB660	1-410-396-41	FERRITE BEAD INDUCTOR		R662	1-249-467-11	CARBON 68K 5% 1/4W	F
FB662	1-410-397-21	FERRITE BEAD INDUCTOR		R663	1-247-706-91	CARBON 330 5% 1/4W	F
FB663	1-410-397-21	FERRITE BEAD INDUCTOR		R664	1-249-425-11	CARBON 4.7K 5% 1/4W	
FB664	1-410-397-21	FERRITE BEAD INDUCTOR		R665	1-249-417-11	CARBON 1K 5% 1/4W	
L601	1-459-104-00	COIL, DUST CORE		R666	1-249-425-11	CARBON 4.7K 5% 1/4W	
L657	1-459-155-00	COIL (WITH CORE) 45UH		R667	1-249-417-11	CARBON 1K 5% 1/4W	
L658	1-459-155-00	COIL (WITH CORE) 45UH		R668	1-249-429-11	CARBON 10K 5% 1/4W	
L659	1-459-407-00	COIL, FERRITE CHOKE		R669	1-249-417-11	CARBON 1K 5% 1/4W	
<IC>				R670	1-249-427-11	CARBON 6.8K 5% 1/4W	F
IC651	8-749-920-81	IC STR-S6301A		R671	1-202-730-00	SOLID 8.2M 10% 1/2W	
	*4-363-404-00	HOLDER, IC: IC651		R672	1-249-455-11	CARBON 4.7 5% 1/4W	F
	*4-393-406-01	SHEET (R), RADIATION		R675	1-215-881-11	METAL OXIDE 15 5% 2W	F
IC652	8-719-156-73	DIODE PS2501-1LB		R676	1-216-446-00	METAL OXIDE 18 5% 2W	F
IC653	8-749-920-62	IC SE-135NS		R690	1-205-945-11	WIREWOUND 33 10% 7W	F
				R691	1-216-468-11	METAL OXIDE 82K 5% 2W	F
				R692	1-216-468-11	METAL OXIDE 82K 5% 2W	F
IC654	8-749-920-61	IC SE-135N		R693	1-216-468-11	METAL OXIDE 82K 5% 2W	F
				R694	1-216-468-11	METAL OXIDE 82K 5% 2W	F
				R695	1-216-468-11	METAL OXIDE 82K 5% 2W	F
				R696	1-207-682-00	WIREWOUND 47 10% 5W	F



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<RELAY>							
RY601	Δ 1-515-684-22	RELAY		C125	1-124-925-11	ELECT	2.2MF 20% 50V
<TRANSFORMER>				C126	1-102-121-00	CERAMIC	0.0022MF 10% 50V
T601	Δ 1-424-206-21	TRANSFORMER, LINE FILTER		C129	1-136-173-00	FILM	0.47MF 5% 50V
T602	Δ 1-424-206-21	TRANSFORMER, LINE FILTER		C199	1-124-477-11	ELECT	47MF 20% 16V
T603	Δ 1-448-916-11	TRANSFORMER, POWER		C201	1-124-478-11	ELECT	100MF 20% 25V
T651	Δ 1-449-609-11	TRANSFORMER		C202	1-102-121-00	CERAMIC	0.0022MF 10% 50V
*****				C203	1-102-121-00	CERAMIC	0.0022MF 10% 50V
*A-1296-855-A A BOARD, COMPLETE				C301	1-126-103-11	ELECT	470MF 20% 16V
*****				C302	1-124-234-00	ELECT	22MF 20% 16V
*4-341-751-01 EYELET (EY6-EY17, EY19, EY30-EY32)				C303	1-136-153-00	FILM	0.01MF 5% 50V
*4-341-752-01 EYELET (EY1-EY5, EY20-EY29)				C304	1-124-903-11	ELECT	1MF 20% 50V
<CONNECTOR>				C305	1-124-902-00	ELECT	0.47MF 20% 50V
A10	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)		C306	1-124-234-00	ELECT	22MF 20% 16V
A11	*1-564-513-11	PLUG, CONNECTOR 10P		C307	1-102-978-00	CERAMIC	220PF 5% 50V
A12	*1-564-512-11	PLUG, CONNECTOR 9P		C308	1-164-033-11	CERAMIC	39PF 5% 50V
A13	*1-565-509-11	CONNECTOR, BOARD TO BOARD 18P		C309	1-136-165-00	FILM	0.1MF 5% 50V
A14	*1-564-511-11	PLUG, CONNECTOR 8P		C310	1-136-165-00	FILM	0.1MF 5% 50V
A24	*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P		C311	1-136-165-00	FILM	0.1MF 5% 50V
A25	*1-565-509-11	CONNECTOR, BOARD TO BOARD 18P		C312	1-136-169-00	FILM	0.22MF 5% 50V
A26	*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P		C313	1-124-903-11	ELECT	1MF 20% 50V
A31	*1-564-509-11	PLUG, CONNECTOR 6P		C315	1-136-158-00	FILM	0.027MF 5% 50V
A32	*1-564-508-11	PLUG, CONNECTOR 5P		C316	1-164-070-11	CERAMIC	100PF 5% 50V
A33	*1-564-511-11	PLUG, CONNECTOR 8P		C317	1-136-169-00	FILM	0.22MF 5% 50V
A41	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		C318	1-136-169-00	FILM	0.22MF 5% 50V
A42	*1-564-505-11	PLUG, CONNECTOR 2P		C319	1-102-980-00	CERAMIC	270PF 5% 50V
A43	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		C320	1-124-499-11	ELECT	1MF 20% 50V
A61	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P		C321	1-136-153-00	FILM	0.01MF 5% 50V
A63	*1-564-507-11	PLUG, CONNECTOR 4P		C322	1-124-903-11	ELECT	1MF 20% 50V
A64	*1-564-511-11	PLUG, CONNECTOR 8P		C324	1-102-114-00	CERAMIC	470PF 10% 50V
A81	*1-568-536-11	PLUG (MINIATURE DY) 6P		C325	1-102-114-00	CERAMIC	470PF 10% 50V
A82	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P		C326	1-124-903-11	ELECT	1MF 20% 50V
A83	*1-564-505-11	PLUG, CONNECTOR 2P		C327	1-130-479-00	MYLAR	0.0047MF 5% 50V
A84	*1-564-508-11	PLUG, CONNECTOR 5P		C328	1-124-907-11	ELECT	10MF 20% 50V
A85	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		C329	1-124-799-11	ELECT	2.2MF 20% 160V
<CAPACITOR>				C330	1-119-507-11	ELECT	220MF 16V
C101	1-124-261-00	ELECT	10MF 20% 50V	C331	1-102-112-00	CERAMIC	330PF 10% 50V
C102	1-126-233-11	ELECT	22MF 20% 25V	C332	1-136-165-00	FILM	0.1MF 5% 50V
C103	1-124-360-00	ELECT	1000MF 20% 16V	C333	1-124-903-11	ELECT	1MF 20% 50V
C104	1-124-473-11	ELECT	1000MF 20% 10V	C334	1-136-161-00	FILM	0.047MF 5% 50V
C106	1-136-153-00	FILM	0.01MF 5% 50V	C335	1-130-471-00	MYLAR	0.001MF 5% 50V
C107	1-119-160-00	ELECT	470MF 10V	C336	1-130-471-00	MYLAR	0.001MF 5% 50V
C108	1-124-907-11	ELECT	10MF 20% 50V	C338	1-124-927-11	ELECT	4.7MF 20% 50V
C109	1-164-070-11	CERAMIC	100PF 5% 50V	C339	1-124-907-11	ELECT	10MF 20% 50V
C111	1-102-978-00	CERAMIC	220PF 5% 50V	C342	1-161-377-00	CERAMIC	0.0047MF 30% 50V
C112	1-136-161-00	FILM	0.047MF 5% 50V	C344	1-126-176-11	ELECT	220MF 20% 10V
C113	1-124-903-11	ELECT	1MF 20% 50V	C351	1-136-169-00	FILM	0.22MF 5% 50V
C114	1-102-978-00	CERAMIC	220PF 5% 50V	C352	1-136-165-00	FILM	0.1MF 5% 50V
C115	1-102-978-00	CERAMIC	220PF 5% 50V	C353	1-124-902-00	ELECT	0.47MF 20% 50V
C116	1-164-070-11	CERAMIC	100PF 5% 50V	C500	1-130-475-00	MYLAR	0.0022MF 5% 50V
C117	1-164-054-11	CERAMIC	22PF 5% 50V	C501	1-124-122-11	ELECT	100MF 20% 50V
C118	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C502	Δ 1-124-557-95	ELECT	1000MF 20% 25V
C119	1-124-907-11	ELECT	10MF 20% 50V	C503	1-124-126-00	ELECT	47MF 20% 25V
C120	1-124-360-00	ELECT	1000MF 20% 16V	C504	1-106-216-00	MYLAR	0.068MF 10% 100V
C121	1-136-165-00	FILM	0.1MF 5% 50V	C505	1-106-383-00	MYLAR	0.047MF 10% 100V
C124	1-130-728-00	FILM	0.0022MF 5% 50V	C506	1-106-385-00	MYLAR	0.056MF 10% 100V
				C507	1-106-220-00	MYLAR	0.1MF 10% 100V
				C508	1-136-161-00	FILM	0.047MF 5% 50V
				C509	1-106-387-00	MYLAR	0.068MF 10% 200V
				C510	1-102-228-00	CERAMIC	470PF 10% 500V
				C511	1-123-024-21	ELECT	33MF 160V
				C512	1-124-046-00	ELECT	10MF 20% 160V
				C513	1-124-477-11	ELECT	47MF 20% 25V
				C514	1-124-557-11	ELECT	1000MF 20% 25V

A

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
C515	1-162-114-00	CERAMIC	0.0047MF	2KV	D102	8-719-911-19	DIODE 1SS119	
C516	1-162-116-00	CERAMIC	680PF	10%	2KV	D103	8-719-911-19	DIODE 1SS119
C517	1-162-116-00	CERAMIC	680PF	10%	2KV	D104	8-719-987-06	DIODE WG713A
C518	1-106-359-00	MYLAR	0.0047MF	10%	200V	D105	8-719-974-81	DIODE 1SV113
C519	1-136-732-11	FILM	0.0021MF	3%	1.4KV			
C521	1-162-115-00	CERAMIC	330PF	10%	2KV	D112	8-719-911-19	DIODE 1SS119
C522	1-136-316-51	FILM	0.056MF	5%	630V	D113	8-719-911-19	DIODE 1SS119
C523	1-102-244-00	CERAMIC	220PF	10%	500V	D114	8-719-911-19	DIODE 1SS119
C524	1-106-383-00	MYLAR	0.047MF	20%	200V	D301	8-719-110-48	DIODE RD18ES-B1
C525	1-124-902-00	ELECT	0.47MF	20%	50V	D302	8-719-109-89	DIODE RD5.6ES-B2
C526	1-102-244-00	CERAMIC	220PF	10%	500V	D303	8-719-109-84	DIODE RD5.1ES-B1
C527	1-162-318-11	CERAMIC	0.001MF	10%	500V	D304	8-719-109-96	DIODE RD6.8ES-B1
C528	1-102-030-00	CERAMIC	330PF	10%	500V	D305	8-719-109-93	DIODE RD6.2ES-B2
C529	1-136-110-00	FILM	0.91MF	5%	200V	D307	8-719-911-19	DIODE 1SS119
C530	1-123-947-00	ELECT	10MF	20%	250V	D308	8-719-911-19	DIODE 1SS119
C531	1-130-475-00	MYLAR	0.0022MF	5%	50V	D310	8-719-911-19	DIODE 1SS119
C532	1-130-475-00	MYLAR	0.0022MF	5%	50V	D311	8-719-110-48	DIODE RD18ES-B1
C533	1-130-471-00	MYLAR	0.001MF	5%	50V	D350	8-719-109-89	DIODE RD5.6ES-B2
C534	1-124-477-11	ELECT	47MF	20%	25V	D500	8-719-911-55	DIODE U05G
C535	1-123-948-00	ELECT	22MF	20%	250V	D501	8-719-300-33	DIODE RU-3AM
C543	1-136-569-11	FILM	1.2MF	5%	200V	D502	8-719-902-85	DIODE RG3G-5007L
C544	1-106-343-00	MYLAR	0.001MF	10%	100V	D503	8-719-979-85	DIODE EGP20G
C545	1-124-910-11	ELECT	47MF	20%	50V	D504	8-719-500-26	DIODE D5KD20H
C546	1-102-228-00	CERAMIC	470PF	10%	500V	D505	8-719-976-64	DIODE RGP02-17
C547	1-161-754-00	CERAMIC	0.001MF	10%	3KV	D506	8-719-911-19	DIODE 1SS119
C548	1-126-163-11	ELECT	4.7MF	20%	50V	D507	8-719-300-33	DIODE RU-3AM
C549	1-126-176-11	ELECT	220MF	20%	10V	D508	8-719-911-19	DIODE 1SS119
C550	1-136-540-11	FILM	0.82MF	5%	200V	D509	8-719-911-19	DIODE 1SS119
C551	1-124-927-11	ELECT	4.7MF	20%	50V	D510	8-719-109-89	DIODE RD5.6ES-B2
C552	1-102-228-00	CERAMIC	470PF	10%	500V	D511	8-719-902-85	DIODE RG3G-5007L
C553	1-124-907-11	ELECT	10MF	20%	50V	D512	8-719-311-87	DIODE FMS-3FU
C554	1-164-075-11	CERAMIC	150PF	10%	50V	*4-393-401-01	SPRING; D512	
C555	1-136-161-00	FILM	0.047MF	5%	50V	D513	8-719-911-19	DIODE 1SS119
C556	1-123-932-00	ELECT	4.7MF	20%	160V	D514	8-719-911-19	DIODE 1SS119
C557	1-102-114-00	CERAMIC	470PF	10%	50V	D515	8-719-911-19	DIODE 1SS119
C558	1-136-161-00	FILM	0.047MF	5%	50V	D517	8-719-110-72	DIODE RD30ES-B1
C559	1-136-165-00	FILM	0.1MF	5%	50V	D531	8-719-911-19	DIODE 1SS119
C581	1-124-478-11	ELECT	100MF	20%	25V	D533	8-719-109-81	DIODE RD4.7ES-B2
C582	1-124-478-11	ELECT	100MF	20%	25V	D539	8-719-302-43	DIODE RU-3AM
C583	1-124-478-11	ELECT	100MF	20%	25V	D1701	8-719-109-96	DIODE RD6.8ES-B1
C584	1-124-478-11	ELECT	100MF	20%	25V			
C585	1-124-478-11	ELECT	100MF	20%	25V			
C586	1-124-478-11	ELECT	100MF	20%	25V			
C1701	1-102-976-00	CERAMIC	180PF	5%	50V			
C1702	1-164-070-11	CERAMIC	100PF	5%	50V			
C1703	1-124-477-11	ELECT	47MF	20%	16V			
C1704	1-102-121-00	CERAMIC	0.0022MF	10%	50V			
<COMPOSITION CIRCUIT BLOCK>								
CP101	1-231-682-00	COMPOSITION CIRCUIT BLOCK						
CP102	1-236-301-11	NETWORK, C						
CP103	1-236-491-11	NETWORK, RES, THICK FILM						
CP104	1-232-682-11	COMPOSITION CIRCUIT BLOCK						
CP105	1-236-479-11	NETWORK, C						
CP106	1-236-479-11	NETWORK, C						
CP108	1-236-358-21	NETWORK, RES						
CP109	1-236-358-21	NETWORK, RES						
CP110	1-236-294-11	NETWORK, RES						
CP111	1-232-680-11	COMPOSITION CIRCUIT BLOCK						
<DIODE>								
D101	8-719-110-78	DIODE RD3ES-B2						
<IC>								
IC101	8-759-636-30	IC M37200M6-A16SP						
IC102	8-759-972-43	IC PCD8582						
IC103	8-759-403-44	IC MN1280-S						
IC301	8-752-035-52	IC CA318ES						
IC500	8-759-980-58	IC TDA8172						
*4-393-401-01	SPRING; IC500							
4-393-405-01	SHEET (V), RADIATION; IC500							
IC531	8-759-103-93	IC UPC393C						
IC581	8-759-142-04	IC UPC7895H						
*4-393-401-01	SPRING; IC581							
IC582	8-759-142-04	IC UPC7895H						
*4-368-683-01	SPRING; IC582							
IC901	8-759-924-82	IC LE7805CT						
IC1701	8-759-978-66	IC MB88201-638L						
<IF BLOCK>								
IF201	1-464-755-21	IF BLOCK (IFE-450A)						
<COIL>								
L101	1-408-421-00	INDUCTOR	100UH					

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RM-Y108

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Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L102	1-408-415-00	INDUCTOR 33UH		R101	1-249-425-11	CARBON 4.7K 5%	1/4W
L201	1-408-408-00	INDUCTOR 8.2UH		R102	1-249-416-11	CARBON 820 5%	1/4W
L500	1-422-613-11	COIL, AIR CORE		R103	1-215-896-00	METAL OXIDE 4.7K 5%	2W F
L501	1-459-148-00	COIL		R104	1-249-425-11	CARBON 4.7K 5%	1/4W
L502	1-408-225-00	INDUCTOR 3.3UH		R105	1-249-429-11	CARBON 10K 5%	1/4W
L503	1-422-613-11	COIL, AIR CORE		R106	1-249-421-11	CARBON 2.2K 5%	1/4W
L505 Δ	1-410-669-41	INDUCTOR 33UH		R107	1-249-417-11	CARBON 1K 5%	1/4W
L506	1-408-225-00	INDUCTOR 3.3UH		R108	1-249-421-11	CARBON 2.2K 5%	1/4W
L507	1-421-541-00	COIL, CHOKE 100UH		R109	1-249-421-11	CARBON 2.2K 5%	1/4W
L508 Δ	1-424-206-11	COIL, PIN MODULATION		R110	1-249-421-11	CARBON 2.2K 5%	1/4W
L509	1-422-613-11	COIL, AIR CORE		R111	1-249-421-11	CARBON 2.2K 5%	1/4W
L510	1-459-148-00	COIL		R112	1-249-421-11	CARBON 2.2K 5%	1/4W
L511	1-408-225-00	INDUCTOR 3.3UH		R113	1-249-421-11	CARBON 2.2K 5%	1/4W
L512 Δ	1-459-973-21	COIL, HORIZONTAL LINEARITY		R114	1-249-421-11	CARBON 2.2K 5%	1/4W
L513	1-408-698-00	INDUCTOR 8.2UH		R115	1-249-421-11	CARBON 2.2K 5%	1/4W
L514 Δ	1-408-698-21	INDUCTOR 8.2UH		R116	1-249-409-11	CARBON 220 5%	1/4W
L1701	1-408-413-00	INDUCTOR 22UH		R117	1-249-409-11	CARBON 220 5%	1/4W
<NEON LAMP>				R118	1-249-409-11	CARBON 220 5%	1/4W
NL501	1-519-108-99	LAMP, NEON		R119	1-249-431-11	CARBON 15K 5%	1/4W
<MODULE>				R120	1-249-421-11	CARBON 2.2K 5%	1/4W
PM501 Δ	1-808-690-11	MODULE, PROTECTOR (PM-14)		R121	1-249-421-11	CARBON 2.2K 5%	1/4W
<TRANSISTOR>				R122	1-249-421-11	CARBON 2.2K 5%	1/4W
Q101	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R123	1-249-421-11	CARBON 2.2K 5%	1/4W
Q103	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R124	1-249-421-11	CARBON 2.2K 5%	1/4W
Q104	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R125	1-249-429-11	CARBON 10K 5%	1/4W
Q107	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R126	1-249-429-11	CARBON 10K 5%	1/4W
Q110	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R127	1-249-413-11	CARBON 470 5%	1/4W
Q112	8-729-900-89	TRANSISTOR DTC144ES		R128	1-249-425-11	CARBON 4.7K 5%	1/4W
Q113	8-729-900-89	TRANSISTOR DTC144ES		R129	1-249-413-11	CARBON 470 5%	1/4W
Q114	8-729-900-89	TRANSISTOR DTC144ES		R130	1-249-437-11	CARBON 47K 5%	1/4W
Q170	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R131	1-249-429-11	CARBON 10K 5%	1/4W
Q201	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R132	1-249-429-11	CARBON 10K 5%	1/4W
Q301	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R133	1-249-421-11	CARBON 2.2K 5%	1/4W
Q302	8-729-900-89	TRANSISTOR DTC144ES		R134	1-249-421-11	CARBON 2.2K 5%	1/4W
Q303	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R135	1-249-429-11	CARBON 10K 5%	1/4W
Q304	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R136	1-249-429-11	CARBON 10K 5%	1/4W
Q305	8-729-900-89	TRANSISTOR DTC144ES		R137	1-249-409-11	CARBON 220 5%	1/4W
Q306	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R138	1-249-425-11	CARBON 4.7K 5%	1/4W
Q307	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R139	1-249-421-11	CARBON 2.2K 5%	1/4W
Q308	8-729-900-89	TRANSISTOR DTC144ES		R140	1-249-413-11	CARBON 470 5%	1/4W
Q310	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R141	1-249-427-11	CARBON 6.8K 5%	1/4W
Q311	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R142	1-249-437-11	CARBON 47K 5%	1/4W
Q312	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R143	1-249-437-11	CARBON 47K 5%	1/4W
Q313	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R144	1-215-896-00	METAL OXIDE 4.7K 5%	2W F
Q314	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R145	1-249-429-11	CARBON 10K 5%	1/4W
Q351	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R146	1-247-903-00	CARBON 1M 5%	1/4W
Q352	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R147	1-249-429-11	CARBON 10K 5%	1/4W
Q501	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R148	1-249-429-11	CARBON 10K 5%	1/4W
Q502	8-729-119-80	TRANSISTOR 2SC2688-LK		R149	1-215-897-11	METAL OXIDE 6.8K 5%	2W F
Q503	8-729-304-50	TRANSISTOR 2SD1941-06		R150	1-249-441-11	CARBON 100K 5%	1/4W
Q504	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R151	1-249-437-11	CARBON 47K 5%	1/4W
Q505	8-729-208-72	TRANSISTOR 2SC3298B-Y		R152	1-249-425-11	CARBON 4.7K 5%	1/4W
Q506	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R153	1-249-429-11	CARBON 10K 5%	1/4W
<RESISTOR>				R154	1-249-429-11	CARBON 10K 5%	1/4W
				R155	1-249-441-11	CARBON 100K 5%	1/4W
				R156	1-249-409-11	CARBON 220 5%	1/4W
				R158	1-249-429-11	CARBON 10K 5%	1/4W
				R159	1-249-437-11	CARBON 47K 5%	1/4W
				R160	1-247-887-00	CARBON 220K 5%	1/4W
				R161	1-249-409-11	CARBON 220 5%	1/4W
				R162	1-249-409-11	CARBON 220 5%	1/4W
				R163	1-249-421-11	CARBON 2.2K 5%	1/4W
				R164	1-249-409-11	CARBON 220 5%	1/4W
				R165	1-249-409-11	CARBON 220 5%	1/4W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R166	1-249-409-11	CARBON	220 5% 1/4W	R317	1-249-429-11	CARBON	10K 5% 1/4W
R167	1-249-425-11	CARBON	4.7K 5% 1/4W	R318	1-249-437-11	CARBON	47K 5% 1/4W
R168	1-249-429-11	CARBON	10K 5% 1/4W	R320	1-249-429-11	CARBON	10K 5% 1/4W
R169	1-249-429-11	CARBON	10K 5% 1/4W	R321	1-249-441-11	CARBON	100K 5% 1/4W
R170	1-249-429-11	CARBON	10K 5% 1/4W	R322	1-249-428-11	CARBON	8.2K 5% 1/4W
R171	1-249-421-11	CARBON	2.2K 5% 1/4W	R323	1-215-457-00	METAL	33K 1% 1/4W
R172	1-249-429-11	CARBON	10K 5% 1/4W	R324	1-249-405-11	CARBON	100 5% 1/4W
R173	1-249-421-11	CARBON	2.2K 5% 1/4W	R325	1-249-414-11	CARBON	560 5% 1/4W
R174	1-249-421-11	CARBON	2.2K 5% 1/4W	R326	1-249-421-11	CARBON	2.2K 5% 1/4W
R175	1-249-421-11	CARBON	2.2K 5% 1/4W	R327	1-249-417-11	CARBON	1K 5% 1/4W
R177	1-249-409-11	CARBON	220 5% 1/4W	R328	1-249-413-11	CARBON	470 5% 1/4W
R178	1-249-413-11	CARBON	470 5% 1/4W	R329	1-249-425-11	CARBON	4.7K 5% 1/4W
R179	1-249-410-11	CARBON	270 5% 1/4W	R330	1-249-421-11	CARBON	2.2K 5% 1/4W
R181	1-249-417-11	CARBON	1K 5% 1/4W	R332	1-247-889-00	CARBON	270K 5% 1/4W
R182	1-249-421-11	CARBON	2.2K 5% 1/4W	R333	1-249-409-11	CARBON	220 5% 1/4W
R183	1-249-421-11	CARBON	2.2K 5% 1/4W	R334	1-249-420-11	CARBON	1.8K 5% 1/4W
R184	1-249-417-11	CARBON	1K 5% 1/4W	R335	1-247-887-00	CARBON	220K 5% 1/4W
R185	1-249-417-11	CARBON	1K 5% 1/4W	R336	1-249-405-11	CARBON	100 5% 1/4W
R186	1-249-421-11	CARBON	2.2K 5% 1/4W	R337	1-249-438-11	CARBON	56K 5% 1/4W
R187	1-249-421-11	CARBON	2.2K 5% 1/4W	R339	1-249-411-11	CARBON	330 5% 1/4W
R188	1-249-425-11	CARBON	4.7K 5% 1/4W	R340	1-249-405-11	CARBON	100 5% 1/4W
R189	1-249-433-11	CARBON	22K 5% 1/4W	R341	1-249-405-11	CARBON	100 5% 1/4W
R190	1-249-421-11	CARBON	2.2K 5% 1/4W	R342	1-249-405-11	CARBON	100 5% 1/4W
R191	1-249-421-11	CARBON	2.2K 5% 1/4W	R343	1-249-405-11	CARBON	100 5% 1/4W
R192	1-249-421-11	CARBON	2.2K 5% 1/4W	R344	1-249-405-11	CARBON	100 5% 1/4W
R194	1-249-417-11	CARBON	1K 5% 1/4W	R346	1-249-413-11	CARBON	470 5% 1/4W
R195	1-249-421-11	CARBON	2.2K 5% 1/4W	R347	1-259-884-11	CARBON	4.7M 5% 1/4W
R196	1-249-417-11	CARBON	1K 5% 1/4W	R349	1-249-409-11	CARBON	220 5% 1/4W
R197	1-259-884-11	CARBON	4.7M 5% 1/4W	R350	1-249-423-11	CARBON	3.3K 5% 1/4W
R198	1-249-421-11	CARBON	2.2K 5% 1/4W	R351	1-249-441-11	CARBON	100K 5% 1/4W
R200	1-249-417-11	CARBON	1K 5% 1/4W	R352	1-249-441-11	CARBON	100K 5% 1/4W
R201	1-249-425-11	CARBON	4.7K 5% 1/4W	R353	1-249-441-11	CARBON	100K 5% 1/4W
R202	1-249-429-11	CARBON	10K 5% 1/4W	R354	1-249-433-11	CARBON	22K 5% 1/4W
R203	1-249-434-11	CARBON	27K 5% 1/4W	R355	1-249-433-11	CARBON	22K 5% 1/4W
R204	1-249-436-11	CARBON	39K 5% 1/4W	R356	1-249-433-11	CARBON	22K 5% 1/4W
R205	1-249-411-11	CARBON	330 5% 1/4W	R357	1-249-437-11	CARBON	47K 5% 1/4W
R208	1-215-865-11	METAL OXIDE	220 5% 1W	R358	1-247-889-00	CARBON	270K 5% 1/4W
R209	1-249-417-11	CARBON	1K 5% 1/4W	R359	1-249-433-11	CARBON	22K 5% 1/4W
R220	1-249-433-11	CARBON	22K 5% 1/4W	R360	1-249-433-11	CARBON	22K 5% 1/4W
R221	1-249-433-11	CARBON	22K 5% 1/4W	R361	1-249-431-11	CARBON	15K 5% 1/4W
R224	1-249-417-11	CARBON	1K 5% 1/4W	R362	1-249-421-11	CARBON	2.2K 5% 1/4W
R225	1-249-417-11	CARBON	1K 5% 1/4W	R363	1-249-421-11	CARBON	2.2K 5% 1/4W
R226	1-249-433-11	CARBON	22K 5% 1/4W	R364	1-249-405-11	CARBON	100 5% 1/4W
R227	1-249-441-11	CARBON	100K 5% 1/4W	R365	1-249-405-11	CARBON	100 5% 1/4W
R228	1-249-437-11	CARBON	47K 5% 1/4W	R366	1-249-437-11	CARBON	47K 5% 1/4W
R230	1-249-409-11	CARBON	220 5% 1/4W	R367	1-249-417-11	CARBON	1K 5% 1/4W
R231	1-249-411-11	CARBON	330 5% 1/4W	R368	1-249-417-11	CARBON	1K 5% 1/4W
R234	1-249-409-11	CARBON	220 5% 1/4W	R370	1-249-405-11	CARBON	100 5% 1/4W
R236	1-249-417-11	CARBON	1K 5% 1/4W	R371	1-249-413-11	CARBON	470 5% 1/4W
R301	1-215-448-00	METAL	13K 1% 1/4W	R373	1-249-417-11	CARBON	1K 5% 1/4W
R303	1-249-441-11	CARBON	100K 5% 1/4W	R374	1-249-428-11	CARBON	8.2K 5% 1/4W
R304	1-249-432-11	CARBON	18K 5% 1/4W	R375	1-249-421-11	CARBON	2.2K 5% 1/4W
R305	1-247-899-11	CARBON	680K 5% 1/4W	R376	1-249-425-11	CARBON	4.7K 5% 1/4W
R306	1-215-421-00	METAL	1K 1% 1/4W	R377	1-249-438-11	CARBON	56K 5% 1/4W
R307	1-249-405-11	CARBON	100 5% 1/4W	R378	1-249-427-11	CARBON	6.8K 5% 1/4W
R308	1-249-405-11	CARBON	100 5% 1/4W	R379	1-249-421-11	CARBON	2.2K 5% 1/4W
R309	1-249-405-11	CARBON	100 5% 1/4W	R381	1-249-421-11	CARBON	2.2K 5% 1/4W
R310	1-249-409-11	CARBON	220 5% 1/4W	R382	1-249-413-11	CARBON	470 5% 1/4W
R311	1-249-409-11	CARBON	220 5% 1/4W	R383	1-249-429-11	CARBON	10K 5% 1/4W
R312	1-249-409-11	CARBON	220 5% 1/4W	R385	1-247-903-00	CARBON	1M 5% 1/4W
R313	1-249-409-11	CARBON	220 5% 1/4W	R386	1-249-417-11	CARBON	1K 5% 1/4W
R314	1-249-409-11	CARBON	220 5% 1/4W	R388	1-249-409-11	CARBON	220 5% 1/4W
R315	1-249-417-11	CARBON	1K 5% 1/4W	R500	1-249-433-11	CARBON	22K 5% 1/4W
R316	1-249-425-11	CARBON	4.7K 5% 1/4W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R501	1-249-435-11	CARBON	33K 5% 1/4W	R1707	1-249-417-11	CARBON	1K 5% 1/4W
R502	1-216-371-00	METAL OXIDE	1.5 5% 2W F	R1708	1-249-417-11	CARBON	1K 5% 1/4W
R503	1-247-870-11	CARBON	43K 5% 1/4W	R1709	1-249-417-11	CARBON	1K 5% 1/4W
R504	1-247-854-11	CARBON	9.1K 5% 1/4W	R1710	1-249-417-11	CARBON	1K 5% 1/4W
R505	1-216-453-00	METAL OXIDE	270 5% 2W F	R1711	1-249-417-11	CARBON	1K 5% 1/4W
R506	1-249-417-11	CARBON	1K 5% 1/4W	R1712	1-249-417-11	CARBON	1K 5% 1/4W
R509 Δ	1-247-899-11	CARBON	680K 5% 1/4W	R1713	1-249-429-11	CARBON	10K 5% 1/4W
R510	1-249-393-11	CARBON	10 5% 1/4W F	R1714	1-249-429-11	CARBON	10K 5% 1/4W
R511	1-249-436-11	CARBON	39K 5% 1/4W	R1715	1-249-429-11	CARBON	10K 5% 1/4W
R513	1-249-425-11	CARBON	4.7K 5% 1/4W				
R514	1-249-417-11	CARBON	1K 5% 1/4W			<SPARK GAP>	
R515	1-247-692-11	CARBON	22 5% 1/4W F	SG501	1-519-422-11	GAP, SPARK	
R516 Δ	1-249-443-11	CARBON	6.47 5% 1/4W F			<TRANSFORMER>	
R517 Δ	1-216-355-00	METAL OXIDE	5.6 5% 1W F	T500 Δ	1-439-457-11	TRANSFORMER ASSY. KEYBAC	
R518	1-249-482-11	CARBON	4.7 5% 1/2W F	T501 Δ	1-437-195-12	TRANSFORMER HORIZONTAL DRIVE	
R519 Δ	1-216-871-00	METAL OXIDE	2.2K 5% 1W F	T502 Δ	1-413-059-11	TRANSFORMER PERRITE (DET)	
R521 Δ	1-249-469-01	CARBON	100K 5% 1/4W F			<TUNER>	
R522	1-215-868-00	METAL OXIDE	680 5% 1W F	TU101 Δ	1-463-771-11	TUNER, ET (RTP-201A)	
R523	1-216-341-11	METAL OXIDE	0.22 5% 1W F			<CRYSTAL>	
R524	1-215-890-11	METAL OXIDE	470 5% 2W F	X101	1-577-082-11	VIBRATOR, CERAMIC 4MHz	
R527 Δ	1-249-443-91	CARBON	6.47 5% 1/4W F	X301	1-567-505-11	OSCILLATOR, CRYSTAL 3.58MHz	
R528	1-215-881-11	METAL OXIDE	15 5% 2W F			*****	
R529	1-249-426-11	CARBON	5.6K 5% 1/4W			*1-635-250-11 X1 BOARD	
R530	1-249-438-11	CARBON	56K 5% 1/4W			*****	
R531	1-216-479-11	METAL OXIDE	560 5% 3W F			<CAPACITOR>	
R533	1-249-429-11	CARBON	10K 5% 1/4W	C251	1-124-903-11	ELECT	1MF 20% 50V
R534	1-249-437-11	CARBON	47K 5% 1/4W	C252	1-136-157-00	FILM	0.022MF 5% 50V
R535	1-215-454-00	METAL	24K 1% 1/4W	C253	1-124-903-11	ELECT	1MF 20% 50V
R536	1-215-479-00	METAL	270K 1% 1/4W	C254	1-130-309-00	FILM	0.033MF 5% 100V
R537	1-247-883-00	CARBON	150K 5% 1/4W	C255	1-124-903-11	ELECT	1MF 20% 50V
R538	1-247-885-00	CARBON	180K 5% 1/4W	C256	1-124-478-11	ELECT	100MF 20% 25V
R539	1-216-479-11	METAL OXIDE	560 5% 3W F	C257	1-124-927-11	ELECT	4.7MF 20% 50V
R541	1-215-437-00	METAL	4.7K 1% 1/4W	C258	1-124-902-00	ELECT	0.47MF 20% 50V
R542	1-249-441-11	CARBON	100K 5% 1/4W	C259	1-124-903-11	ELECT	1MF 20% 50V
R549 Δ	1-249-441-11	CARBON	100K 5% 1/4W	C260	1-124-903-11	ELECT	1MF 20% 50V
R551	1-249-413-11	CARBON	470 5% 1/4W	C261	1-131-347-00	TANTALUM	1MF 20% 16V
R552	1-249-405-11	CARBON	100 5% 1/4W F	C262	1-124-903-11	ELECT	1MF 20% 50V
R553	1-249-401-11	CARBON	47 5% 1/4W	C263	1-124-903-11	ELECT	1MF 20% 50V
R554	1-249-423-11	CARBON	3.3K 5% 1/4W	C264	1-124-907-11	ELECT	10MF 20% 50V
R555	1-247-722-11	CARBON	5.6K 5% 1/4W F	C265	1-136-170-00	FILM	0.27MF 5% 50V
R556 Δ	1-247-694-91	CARBON	6.47 5% 1/4W F	C266	1-124-907-11	ELECT	10MF 20% 50V
R558	1-215-890-11	METAL OXIDE	470 5% 2W F	C267	1-131-368-00	TANTALUM	3.3MF 10% 16V
R559 Δ	1-215-880-01	METAL OXIDE	330 5% 2W F	C268	1-124-903-11	ELECT	1MF 20% 50V
R560	1-247-889-00	CARBON	270K 5% 1/4W	C269	1-131-347-00	TANTALUM	1MF 20% 16V
R561	1-249-437-11	CARBON	47K 5% 1/4W	C270	1-124-903-11	ELECT	1MF 20% 50V
R562	1-247-734-11	CARBON	39 5% 1/2W F	C271	1-124-907-11	ELECT	10MF 20% 50V
R563	1-215-890-11	METAL OXIDE	470 5% 2W F	C272	1-124-903-11	ELECT	1MF 20% 50V
R564 Δ	1-247-847-91	CARBON	4.7K 5% 1/4W	C273	1-124-477-11	ELECT	47MF 20% 16V
R567 Δ	1-249-431-11	CARBON	15K 5% 1/4W	C274	1-130-475-00	MYLAR	0.0022MF 5% 50V
R568	1-249-431-11	CARBON	15K 5% 1/4W	C275	1-130-475-00	MYLAR	0.0022MF 5% 50V
R569	1-249-425-11	CARBON	4.7K 5% 1/4W	C276	1-102-074-00	CERAMIC	0.001MF 10% 50V
R570	1-249-437-11	CARBON	47K 5% 1/4W	C277	1-124-907-11	ELECT	10MF 20% 50V
R571 Δ	1-213-046-61	FUSIBLE	2.7 5% 1W F	C278	1-124-903-11	ELECT	1MF 20% 50V
R572 Δ	1-216-377-01	METAL OXIDE	4.7 5% 2W F				
R573 Δ	1-216-377-01	METAL OXIDE	4.7 5% 2W F				
R574	1-249-409-11	CARBON	220 5% 1/4W F				
R575	1-249-405-11	CARBON	100 5% 1/4W				
R610	1-249-409-11	CARBON	220 5% 1/4W				
R1701	1-249-417-11	CARBON	1K 5% 1/4W				
R1702	1-249-417-11	CARBON	1K 5% 1/4W				
R1703	1-249-417-11	CARBON	1K 5% 1/4W				
R1704	1-249-417-11	CARBON	1K 5% 1/4W				
R1705	1-249-417-11	CARBON	1K 5% 1/4W				
R1706	1-249-417-11	CARBON	1K 5% 1/4W				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C280	1-124-907-11	ELECT	10MF 20% 50V	R284	1-249-441-11	CARBON	100K 5% 1/4W
C281	1-124-907-11	ELECT	10MF 20% 50V	R285	1-247-903-00	CARBON	1M 5% 1/4W
C282	1-124-927-11	ELECT	4.7MF 20% 50V	R286	1-249-393-11	CARBON	10 5% 1/4W
C284	1-124-927-11	ELECT	4.7MF 20% 50V	R290	1-215-441-00	METAL	6.8K 1% 1/4W
C285	1-136-171-00	FILM	0.33MF 5% 50V	R291	1-215-441-00	METAL	6.8K 1% 1/4W
C286	1-136-175-00	FILM	0.68MF 5% 50V	R292	1-249-433-11	CARBON	22K 5% 1/4W
C290	1-124-907-11	ELECT	10MF 20% 50V	R293	1-249-433-11	CARBON	22K 5% 1/4W
C291	1-124-907-11	ELECT	10MF 20% 50V	R294	1-249-433-11	CARBON	22K 5% 1/4W
C292	1-124-907-11	ELECT	10MF 20% 50V	R295	1-249-433-11	CARBON	22K 5% 1/4W
C293	1-126-233-11	ELECT	22MF 20% 50V				
C294	1-124-907-11	ELECT	10MF 20% 50V			<CONNECTOR>	
C295	1-101-005-00	CERAMIC	0.022MF 50V	X23	*1-568-380-21	PIN, CONNECTOR 15P	
C296	1-101-005-00	CERAMIC	0.022MF 50V				
		<DIODE>					
D251	8-719-110-48	DIODE RD18ES-B1					
D252	8-719-110-48	DIODE RD18ES-B1					
D253	8-719-110-48	DIODE RD18ES-B1					
D270	8-719-109-90	DIODE RD5.6ES-B3					
D271	8-719-911-19	DIODE ISS119					
		<IC>					
IC251	8-752-037-24	IC CXA1264AS					
		<TRANSISTOR>					
Q270	8-729-119-76	TRANSISTOR 2SA1175-HFE					
Q271	8-729-119-76	TRANSISTOR 2SA1175-HFE					
Q272	8-729-119-76	TRANSISTOR 2SA1175-HFE					
Q273	8-729-119-76	TRANSISTOR 2SA1175-HFE					
Q280	8-729-423-37	TRANSISTOR 2SC3311A-QRS					
Q281	8-729-423-37	TRANSISTOR 2SC3311A-QRS					
		<RESISTOR>					
R251	1-215-443-00	METAL	8.2K 1% 1/4W				
R252	1-215-443-00	METAL	8.2K 1% 1/4W				
R253	1-249-409-11	CARBON	220 5% 1/4W				
R254	1-249-409-11	CARBON	220 5% 1/4W				
R255	1-249-420-11	CARBON	1.8K 5% 1/4W				
R256	1-249-405-11	CARBON	100 5% 1/4W				
R257	1-215-445-00	METAL	10K 1% 1/4W				
R258	1-215-445-00	METAL	10K 1% 1/4W				
R259	1-249-409-11	CARBON	220 5% 1/4W				
R260	1-249-409-11	CARBON	220 5% 1/4W				
R261	1-249-409-11	CARBON	220 5% 1/4W				
R262	1-249-409-11	CARBON	220 5% 1/4W				
R266	1-215-456-00	METAL	30K 1% 1/4W				
R270	1-249-428-11	CARBON	8.2K 5% 1/4W				
R271	1-249-428-11	CARBON	8.2K 5% 1/4W				
R272	1-215-455-00	METAL	27K 1% 1/4W				
R273	1-215-455-00	METAL	27K 1% 1/4W				
R274	1-249-417-11	CARBON	1K 5% 1/4W				
R275	1-249-417-11	CARBON	1K 5% 1/4W				
R276	1-249-405-11	CARBON	100 5% 1/4W				
R277	1-249-405-11	CARBON	100 5% 1/4W				
R278	1-249-429-11	CARBON	10K 5% 1/4W				
R279	1-249-429-11	CARBON	10K 5% 1/4W				
R280	1-249-420-11	CARBON	1.8K 5% 1/4W				
R281	1-249-428-11	CARBON	8.2K 5% 1/4W				
R282	1-249-429-11	CARBON	10K 5% 1/4W				
R283	1-249-429-11	CARBON	10K 5% 1/4W				
		<CAPACITOR>					
C701	1-162-116-00	CERAMIC	680PF 10% 2KV				
C702	1-136-601-11	FILM	0.01MF 5% 630V				
C703	1-124-907-11	ELECT	10MF 20% 50V				
C704	1-123-946-00	ELECT	4.7MF 20% 250V				
C705	1-101-821-00	CERAMIC	0.0022MF 500V				
C707	1-102-116-00	CERAMIC	680PF 10% 50V				
C708	1-102-116-00	CERAMIC	680PF 10% 50V				
C709	1-102-116-00	CERAMIC	680PF 10% 50V				
C710	1-164-082-11	CERAMIC	560PF 10% 50V				
C711	1-126-233-11	ELECT	22MF 20% 25V				
C712	1-164-081-11	CERAMIC	470PF 10% 50V				
C713	1-164-082-11	CERAMIC	560PF 10% 50V				
C714	1-162-622-11	CERAMIC	330PF 10% 6.3KV				
C715	1-102-074-00	CERAMIC	0.001MF 10% 50V				
C718	1-102-074-00	CERAMIC	0.001MF 10% 50V				
C720	1-126-233-11	ELECT	22MF 20% 25V				
C721	1-102-074-00	CERAMIC	0.001MF 10% 50V				
C730	1-102-116-00	CERAMIC	680PF 10% 50V				
C731	1-102-116-00	CERAMIC	680PF 10% 50V				
C732	1-102-116-00	CERAMIC	680PF 10% 50V				
		<DIODE>					
D701	8-719-911-19	DIODE ISS119					
D702	8-719-911-19	DIODE ISS119					
D703	8-719-911-19	DIODE ISS119					
D704	8-719-911-19	DIODE ISS119					
D705	8-719-911-19	DIODE ISS119					
D706	8-719-911-19	DIODE ISS119					
D707	8-719-911-19	DIODE ISS119					
D708	8-719-911-19	DIODE ISS119					
D709	8-719-911-19	DIODE ISS119					
D710	8-719-901-83	DIODE ISS83					
D711	8-719-901-83	DIODE ISS83					
D712	8-719-901-83	DIODE ISS83					

C **D**

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1537	1-126-320-11	ELECT	10MF 20% 16V	Q1507	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1538	1-124-477-11	ELECT	47MF 20% 16V	Q1508	8-729-140-97	TRANSISTOR 2SB734-34	
C1539	1-136-165-00	FILM	0.1MF 5% 50V	Q1509	8-729-140-97	TRANSISTOR 2SB734-34	
C1540	1-136-165-00	FILM	0.1MF 5% 50V	Q1510	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1541	1-126-529-11	ELECT	0.47MF 20% 50V	Q1511	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
C1542	1-136-103-00	FILM	0.1MF 5% 200V	Q1512	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1543	1-106-228-00	MYLAR	0.22MF 10% 100V	Q1513	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1544	1-124-120-11	ELECT	220MF 20% 16V	Q1514	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1549	1-124-927-11	ELECT	4.7MF 20% 50V	Q1515	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
C1570	1-124-927-11	ELECT	4.7MF 20% 50V	Q1516	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C1571	1-124-798-11	ELECT	1MF 20% 160V	Q1517	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
<CONNECTOR>				Q1518	8-729-140-96	TRANSISTOR 2SD774-34	
D1	*1-564-507-11	PLUG, CONNECTOR 4P		Q1519	8-729-140-96	TRANSISTOR 2SD774-34	
D6	*1-564-506-11	PLUG, CONNECTOR 3P		Q1520	8-729-208-72	TRANSISTOR 2SC3298B-Y	
D84	*1-564-508-11	PLUG, CONNECTOR 5P		<RESISTOR>			
D85	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		R1501	1-249-409-11	CARBON	220 5% 1/4W
DY2	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		R1502	1-249-409-11	CARBON	220 5% 1/4W
<DIODE>				R1504	1-215-892-11	METAL OXIDE	1K 5% 2W F
D1501	8-719-911-19	DIODE 1SS119		R1505	1-249-417-11	CARBON	1K 5% 1/4W
D1502	8-719-300-33	DIODE RU-3AM		R1506	1-249-423-11	CARBON	3.3K 5% 1/4W
D1503	8-719-980-78	DIODE ERA83-006		R1507	1-249-410-11	CARBON	270 5% 1/4W
D1504	8-719-980-78	DIODE ERA83-006		R1508	1-249-437-11	CARBON	47K 5% 1/4W
D1505	8-719-911-19	DIODE 1SS119		R1509	1-249-429-11	CARBON	10K 5% 1/4W
D1506	8-719-911-19	DIODE 1SS119		R1510	1-215-461-00	METAL	47K 1% 1/4W
D1507	8-719-911-19	DIODE 1SS119		R1511	1-249-429-11	CARBON	10K 5% 1/4W
D1508	8-719-801-35	THYRISTOR SHOR3D42		R1512	1-249-421-11	CARBON	2.2K 5% 1/4W
D1510	8-719-911-19	DIODE 1SS119		R1513	1-249-435-11	CARBON	33K 5% 1/4W
D1511	8-719-911-19	DIODE 1SS119		R1514	1-249-429-11	CARBON	10K 5% 1/4W
D1512	8-719-109-68	DIODE RD3.6ES-B1		R1515	1-249-421-11	CARBON	2.2K 5% 1/4W
D1513	8-719-979-85	DIODE EGP20G		R1516	1-249-421-11	CARBON	2.2K 5% 1/4W
D1516	8-719-911-19	DIODE 1SS119		R1517	1-249-425-11	CARBON	4.7K 5% 1/4W
D1517	8-719-979-85	DIODE EGP20G		R1518	1-249-429-11	CARBON	10K 5% 1/4W
D1518	8-719-911-19	DIODE 1SS119		R1519	1-249-441-11	CARBON	100K 5% 1/4W
D1519	8-719-911-19	DIODE 1SS119		R1520	1-249-429-11	CARBON	10K 5% 1/4W
<IC>				R1521	1-249-441-11	CARBON	100K 5% 1/4W
IC1501	8-759-987-16	IC LM393P		R1522	1-249-427-11	CARBON	6.8K 5% 1/4W
IC1502	8-759-982-34	IC RC78M09FA		R1523	1-249-435-11	CARBON	33K 5% 1/4W
IC1503	8-759-135-80	IC UPC358C		R1524	1-249-421-11	CARBON	2.2K 5% 1/4W
IC1504	8-759-929-62	IC LM7812CT		R1525	1-249-423-11	CARBON	3.3K 5% 1/4W
IC1505	8-759-135-80	IC UPC358C		R1526	1-249-435-11	CARBON	33K 5% 1/4W
IC1506	8-752-052-88	IC CXA1526P		R1527	1-247-713-11	CARBON	1K 5% 1/4W F
<COIL>				R1528	1-249-438-11	CARBON	56K 5% 1/4W
L1502	1-459-592-11	COIL (WITH CORE) (PMC)		R1529	1-249-434-11	CARBON	27K 5% 1/4W
L1503	1-408-247-00	INDUCTOR 33MMH		R1531	1-249-429-11	CARBON	10K 5% 1/4W
L1504	1-459-941-12	COIL, CHOKE 3.4MMH		R1532	1-216-379-11	METAL OXIDE	6.8 5% 2W F
L1505	1-459-104-00	COIL, DUST CORE		R1533	1-249-417-11	CARBON	1K 5% 1/4W
L1506	1-459-592-11	COIL (WITH CORE) (PMC)		R1534	1-249-423-11	CARBON	3.3K 5% 1/4W
L1507	1-459-941-12	COIL, CHOKE 3.4MMH		R1535	1-249-425-11	CARBON	4.7K 5% 1/4W
<TRANSISTOR>				R1536	1-215-857-11	METAL OXIDE	10 5% 1W F
Q1501	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R1537	1-249-404-00	CARBON	82 5% 1/4W
Q1502	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R1538	1-216-379-11	METAL OXIDE	6.8 5% 2W F
Q1503	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R1539	1-215-875-11	METAL OXIDE	10K 5% 1W F
Q1504	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R1540	1-249-413-11	CARBON	470 5% 1/4W
Q1505	8-729-140-96	TRANSISTOR 2SD774-34		R1541	1-249-441-11	CARBON	100K 5% 1/4W
				R1542	1-249-423-11	CARBON	3.3K 5% 1/4W
				R1543	1-249-414-11	CARBON	560 5% 1/4W
				R1544	1-249-417-11	CARBON	1K 5% 1/4W
				R1545	1-249-411-11	CARBON	330 5% 1/4W
				R1546	1-215-887-00	METAL OXIDE	150 5% 2W F
				R1548	1-249-441-11	CARBON	100K 5% 1/4W
				R1552	1-249-426-11	CARBON	5.6K 5% 1/4W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1553	1-215-883-11	METAL OXIDE	33 5% 2W F	C1117	1-124-903-11	ELECT 1MF	20% 50V
R1554	1-249-393-11	CARBON	10 5% 1/4W	C1118	1-106-367-00	MYLAR 0.01MF	10% 100V
R1555	1-215-883-11	METAL OXIDE	33 5% 2W F	C1119	1-102-816-00	CERAMIC 120PF	5% 50V
R1556	1-249-438-11	CARBON	56K 5% 1/4W	C1123	1-126-101-11	ELECT 100MF	20% 16V
R1557	1-249-421-11	CARBON	2.2K 5% 1/4W	C1124	1-101-004-00	CERAMIC 0.01MF	50V
R1558	1-249-425-11	CARBON	4.7K 5% 1/4W	C1125	1-101-888-00	CERAMIC 68PF	5% 50V
R1559	1-249-429-11	CARBON	10K 5% 1/4W	C1126	1-102-935-00	CERAMIC 2PF	0.25PF 50V
R1560	1-247-889-00	CARBON	270K 5% 1/4W	C1127	1-102-943-00	CERAMIC 6PF	1PF 50V
R1561	1-249-429-11	CARBON	10K 5% 1/4W	C1131	1-124-034-51	ELECT 33MF	20% 16V
R1562	1-249-423-11	CARBON	3.3K 5% 1/4W	C1133	1-126-101-11	ELECT 100MF	20% 16V
R1564	1-249-437-11	CARBON	47K 5% 1/4W	C1134	1-101-004-00	CERAMIC 0.01MF	50V
R1565	1-249-437-11	CARBON	47K 5% 1/4W	C1135	1-124-034-51	ELECT 33MF	20% 16V
R1566	1-249-432-11	CARBON	18K 5% 1/4W	C1136	1-101-004-00	CERAMIC 0.01MF	50V
R1567	1-216-447-00	METAL OXIDE	27 5% 2W F	C1137	1-101-004-00	CERAMIC 0.01MF	50V
R1568	1-249-415-11	CARBON	680 5% 1/4W	C1138	1-124-034-51	ELECT 33MF	20% 16V
R1569	1-215-481-00	METAL	330K 1% 1/4W	C1139	1-101-004-00	CERAMIC 0.01MF	50V
R1570	1-249-433-11	CARBON	22K 5% 1/4W	C1140	1-101-004-00	CERAMIC 0.01MF	50V
R1571	1-249-423-11	CARBON	3.3K 5% 1/4W	C1141	1-106-383-00	MYLAR 0.047MF	10% 100V
R1572	1-249-419-11	CARBON	1.5K 5% 1/4W	C1143	1-124-902-00	ELECT 0.47MF	20% 50V
R1573	1-249-433-11	CARBON	22K 5% 1/4W	C1144	1-101-004-00	CERAMIC 0.01MF	50V
R1574	1-249-429-11	CARBON	10K 5% 1/4W	C1145	1-124-927-11	ELECT 4.7MF	20% 50V
R1575	1-249-429-11	CARBON	10K 5% 1/4W	C1146	1-124-927-11	ELECT 4.7MF	20% 50V
R1576	1-215-475-00	METAL	180K 1% 1/4W	C1149	1-101-004-00	CERAMIC 0.01MF	50V
R1578	1-249-437-11	CARBON	47K 5% 1/4W	C1150	1-106-359-00	MYLAR 0.0047MF	10% 100V
R1579	1-249-421-11	CARBON	2.2K 5% 1/4W	C1151	1-124-907-11	ELECT 10MF	20% 50V
R1580	1-249-427-11	CARBON	6.8K 5% 1/4W	C1152	1-124-034-51	ELECT 33MF	20% 16V
R1581	1-249-433-11	CARBON	22K 5% 1/4W	C1153	1-101-004-00	CERAMIC 0.01MF	50V
R1582	1-249-417-11	CARBON	1K 5% 1/4W	C1154	1-124-034-51	ELECT 33MF	20% 16V
R1583	1-249-429-11	CARBON	10K 5% 1/4W	C1155	1-124-902-00	ELECT 0.47MF	20% 50V
R1584	1-249-405-11	CARBON	100 5% 1/4W	C1156	1-124-034-51	ELECT 33MF	20% 16V
R1585	1-249-429-11	CARBON	10K 5% 1/4W	C1157	1-124-034-51	ELECT 33MF	20% 16V
R1586	1-247-895-00	CARBON	470K 5% 1/4W	C1158	1-102-111-00	CERAMIC 270PF	10% 50V
R1587	1-249-432-11	CARBON	18K 5% 1/4W	C1159	1-126-101-11	ELECT 100MF	20% 16V
R1588	1-249-429-11	CARBON	10K 5% 1/4W	C1160	1-102-947-00	CERAMIC 10PF	0.5PF 50V
R1594	1-216-452-11	METAL OXIDE	180 5% 2W F	C1161	1-102-074-00	CERAMIC 0.001MF	10% 50V
R1598	1-216-447-00	METAL OXIDE	27 5% 2W F	C1162	1-124-034-51	ELECT 33MF	20% 16V
R1601	1-216-450-00	METAL OXIDE	180 5% 2W F				
R1603	1-216-375-01	METAL OXIDE	2.2 5% 2W F				
R1604	1-249-439-11	CARBON	68K 5% 1/4W				
R1605	1-249-434-11	CARBON	27K 5% 1/4W				
R1606	1-215-883-11	METAL OXIDE	33 5% 2W F				
<VARIABLE RESISTOR>				<NETWORK>			
RV1507	1-238-552-11	RES, ADJ, CARBON 470K		CP1101	1-236-176-11	NETWORK, RES, THICK FILM	
*****				CP1102	1-236-176-11	NETWORK, RES, THICK FILM	
*A-1347-039-A V BOARD, COMPLETE				CP1103	1-236-176-11	NETWORK, RES, THICK FILM	
*****				<DIODE>			
*4-376-533-01 CASE (MAIN), SHIELD				D1101	8-713-300-57	DIODE 1T33	
*4-376-535-01 CASE (BOTTOM), SHIELD				D1102	8-713-300-57	DIODE 1T33	
<CAPACITOR>				<FILTER>			
C1104	1-102-125-00	CERAMIC	0.0047MF 10% 50V	FL1101	1-236-129-11	ENCAPSULATED COMPONENT	
C1105	1-126-101-11	ELECT	100MF 20% 16V	FL1103	1-236-129-11	ENCAPSULATED COMPONENT	
C1106	1-102-125-00	CERAMIC	0.0047MF 10% 50V	FL1109	1-236-129-11	ENCAPSULATED COMPONENT	
C1107	1-126-101-11	ELECT	100MF 20% 16V	FL1110	1-236-129-11	ENCAPSULATED COMPONENT	
C1108	1-101-888-00	CERAMIC	68PF 5% 50V	FL1111	1-236-164-11	ENCAPSULATED COMPONENT	
C1112	1-102-816-00	CERAMIC	120PF 5% 50V	FL1116	1-236-071-11	ENCAPSULATED COMPONENT	
C1113	1-102-973-00	CERAMIC	100PF 5% 50V	FL1120	1-236-164-11	ENCAPSULATED COMPONENT	
C1114	1-106-355-12	MYLAR	0.0033MF 10% 100V	FL1121	1-236-129-11	ENCAPSULATED COMPONENT	
C1115	1-102-973-00	CERAMIC	100PF 5% 50V	FL1129	1-236-163-11	ENCAPSULATED COMPONENT	
				FL1130	1-236-163-11	ENCAPSULATED COMPONENT	
				FL1132	1-236-071-11	ENCAPSULATED COMPONENT	
				FL1144	1-236-129-11	ENCAPSULATED COMPONENT	
				FL1147	1-236-163-11	ENCAPSULATED COMPONENT	
				FL1148	1-236-163-11	ENCAPSULATED COMPONENT	

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The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.




REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<IC>				R1134	1-215-432-00	METAL 3K 1% 1/4W	
IC1101	8-752-332-83	IC CXD1220AQ		R1135	1-249-437-11	CARBON 47K 5% 1/4W	
IC1102	8-759-925-74	IC SN74HC04ANS		R1137	1-249-401-11	CARBON 47 5% 1/4W	
IC1103	8-759-925-74	IC SN74HC04ANS					
IC1104	8-759-605-15	IC M5M4C500L-10		R1140	1-249-427-11	CARBON 6.8K 5% 1/4W	
IC1105	8-759-605-15	IC M5M4C500L-10		<TRANSFORMER>			
IC1106	8-759-605-15	IC M5M4C500L-10		T1101	1-404-607-11	COIL	
IC1107	8-759-605-14	IC M52678P		T1102	1-404-607-11	COIL	
IC1108	8-759-605-14	IC M52678P		<CONNECTOR>			
IC1109	8-759-011-65	IC MC74HC4053F		V1	*1-566-057-11	PIN, CONNECTOR 5P	
<COIL>				V2	*1-566-061-11	PIN, CONNECTOR 9P	
L1101	1-410-663-31	INDUCTOR 10UH		V3	*1-566-060-11	PIN, CONNECTOR 8P	
L1102	1-410-645-31	INDUCTOR 100UH		*****			
L1103	1-410-677-31	INDUCTOR 180UH		*1-638-780-11	H7 BOARD		
L1104	1-410-663-31	INDUCTOR 10UH		*****			
L1105	1-410-663-31	INDUCTOR 10UH		*4-348-208-00	HOLDER, LED		
L1106	1-410-680-31	INDUCTOR 330UH		<CAPACITOR>			
L1107	1-410-663-31	INDUCTOR 10UH		C51	1-124-584-00	ELECT 100MF 20% 10V	
<TRANSISTOR>				C52	1-126-160-11	ELECT 1MF 20% 50V	
Q1101	8-729-119-76	TRANSISTOR 2SA1175-HFE		C53	1-124-465-00	ELECT 0.47MF 20% 50V	
Q1102	8-729-119-76	TRANSISTOR 2SA1175-HFE		<DIODE>			
Q1103	8-729-119-76	TRANSISTOR 2SA1175-HFE		D4	8-719-911-19	DIODE 1SS119	
Q1104	8-729-119-78	TRANSISTOR 2SC2785-HFE		D8	8-719-911-19	DIODE 1SS119	
<RESISTOR>				D52	8-719-812-41	DIODE TLR124	
R1101	1-249-417-11	CARBON 1K 5% 1/4W		D53	8-719-812-41	DIODE TLR124	
R1102	1-249-417-11	CARBON 1K 5% 1/4W		D54	8-719-911-19	DIODE 1SS119	
R1103	1-249-417-11	CARBON 1K 5% 1/4W		<CONNECTOR>			
R1104	1-249-423-11	CARBON 3.3K 5% 1/4W		H11	*1-564-525-11	PLUG, CONNECTOR 10P	
R1105	1-249-419-11	CARBON 1.5K 5% 1/4W		H12	*1-564-524-11	PLUG, CONNECTOR 9P	
R1106	1-249-409-11	CARBON 220 5% 1/4W		<IC>			
R1107	1-249-417-11	CARBON 1K 5% 1/4W		IC51	8-741-148-33	IC SBX1483-59	
R1108	1-249-417-11	CARBON 1K 5% 1/4W		<RESISTOR>			
R1109	1-249-417-11	CARBON 1K 5% 1/4W		R51	1-249-405-11	CARBON 100 5% 1/4W	
R1110	1-249-439-11	CARBON 68K 5% 1/4W		R52	1-249-405-11	CARBON 100 5% 1/4W	
R1111	1-249-417-11	CARBON 1K 5% 1/4W		R53	1-249-409-11	CARBON 220 5% 1/4W	
R1112	1-249-438-11	CARBON 56K 5% 1/4W		R54	1-249-437-11	CARBON 47K 5% 1/4W	
R1113	1-249-441-11	CARBON 100K 5% 1/4W		<SWITCH>			
R1114	1-249-417-11	CARBON 1K 5% 1/4W		S51	1-572-198-11	SWITCH, KEYBOARD (POWER)	
R1115	1-249-421-11	CARBON 2.2K 5% 1/4W		S52	1-572-198-11	SWITCH, KEYBOARD	
R1116	1-249-431-11	CARBON 15K 5% 1/4W		S53	1-572-198-11	SWITCH, KEYBOARD	
R1117	1-249-438-11	CARBON 56K 5% 1/4W		S54	1-572-198-11	SWITCH, KEYBOARD	
R1118	1-249-441-11	CARBON 100K 5% 1/4W		S55	1-572-198-11	SWITCH, KEYBOARD	
R1119	1-249-439-11	CARBON 68K 5% 1/4W		S56	1-572-198-11	SWITCH, KEYBOARD	
R1120	1-249-409-11	CARBON 220 5% 1/4W		*****			
R1121	1-249-409-11	CARBON 220 5% 1/4W		*A-1371-733-A	W BOARD, COMPLETE		
R1122	1-249-417-11	CARBON 1K 5% 1/4W		*****			
R1123	1-249-423-11	CARBON 3.3K 5% 1/4W					
R1124	1-249-431-11	CARBON 15K 5% 1/4W					
R1125	1-249-417-11	CARBON 1K 5% 1/4W					
R1126	1-249-423-11	CARBON 3.3K 5% 1/4W					
R1127	1-249-431-11	CARBON 15K 5% 1/4W					
R1128	1-249-417-11	CARBON 1K 5% 1/4W					
R1129	1-249-423-11	CARBON 3.3K 5% 1/4W					
R1130	1-249-431-11	CARBON 15K 5% 1/4W					
R1131	1-249-417-11	CARBON 1K 5% 1/4W					
R1133	1-249-417-11	CARBON 1K 5% 1/4W					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<CAPACITOR>							
C2752	1-164-085-11	CERAMIC	0.001MF 10% 50V	R2769	1-249-385-11	CARBON	2.2 5% 1/4W F
C2753	1-124-925-11	ELECT	2.2MF 20% 50V	R2770	1-249-435-11	CARBON	33K 5% 1/4W
C2754	1-164-079-11	CERAMIC	330PF 10% 50V	R2771	1-249-427-11	CARBON	6.8K 5% 1/4W
C2761	1-161-830-00	CERAMIC	0.0047MF 500V	R2774	1-215-886-11	METAL OXIDE	100 5% 2W F
C2762	1-164-054-11	CERAMIC	22PF 5% 50V	R2775	1-249-417-11	CARBON	1K 5% 1/4W F
C2763	1-123-935-00	ELECT	33MF 20% 160V	R2776	1-249-432-11	CARBON	18K 5% 1/4W
C2764	1-124-120-11	ELECT	220MF 20% 16V	R2777	1-249-438-11	CARBON	56K 5% 1/4W
C2766	1-164-066-11	CERAMIC	68PF 5% 50V	R2778	1-249-429-11	CARBON	10K 5% 1/4W
C2767	1-102-244-00	CERAMIC	220PF 10% 500V	R2779	1-249-414-11	CARBON	560 5% 1/4W
C2768	1-106-383-00	MYLAR	0.047MF 200V	R2780	1-249-419-11	CARBON	1.5K 5% 1/4W
C2769	1-124-799-11	ELECT	2.2MF 20% 160V	R2781	1-249-410-11	CARBON	270 5% 1/4W
C2770	1-106-391-12	MYLAR	0.1MF 10% 200V	R2782	1-249-385-11	CARBON	2.2 5% 1/4W F
C2771	1-124-907-11	ELECT	10MF 20% 50V	R2783	1-249-441-11	CARBON	100K 5% 1/4W
C2772	1-126-101-11	ELECT	100MF 20% 16V	R2784	1-249-405-11	CARBON	100 5% 1/4W
C2773	1-106-383-00	MYLAR	0.047MF 200V	R2785	1-249-402-11	CARBON	56 5% 1/4W F
C2774	1-164-064-11	CERAMIC	56PF 5% 50V	R2786	1-249-436-11	CARBON	39K 5% 1/4W
C2775	1-124-120-11	ELECT	220MF 20% 16V	R2787	1-249-432-11	CARBON	18K 5% 1/4W
C2776	1-124-907-11	ELECT	10MF 20% 50V	R2788	1-249-417-11	CARBON	1K 5% 1/4W
C2778	1-164-085-11	CERAMIC	0.001MF 10% 50V	R2789	1-249-417-11	CARBON	1K 5% 1/4W
C2779	1-164-085-11	CERAMIC	0.001MF 10% 50V	R2790	1-216-451-11	METAL OXIDE	120 5% 2W F
C2780	1-124-907-11	ELECT	10MF 20% 50V	R2791	1-249-412-11	CARBON	390 5% 1/4W
<DIODE>				R2792	1-216-450-00	METAL OXIDE	82 5% 2W F
D2761	8-719-911-19	DIODE	1SS119	<CONNECTOR>			
D2763	8-719-911-19	DIODE	1SS119	W1	*1-564-507-11	PLUG, CONNECTOR 4P	
D2764	8-719-911-19	DIODE	1SS119	W2	*1-564-507-11	PLUG, CONNECTOR 4P	
D2765	8-719-911-19	DIODE	1SS119	*****			
D2766	8-719-911-19	DIODE	1SS119	*1-638-781-11 Y1 BOARD			
D2767	8-719-110-90	DIODE	RD39ES-B4	*****			
D2768	8-719-110-90	DIODE	RD39ES-B4	<CONNECTOR>			
<COIL>				Y1-25	*1-565-509-11	CONNECTOR, BOARD TO BOARD 18P	
L2762	1-408-418-00	INDUCTOR	56UH	Y1-72	*1-564-525-11	PLUG, CONNECTOR 10P	
L2763	1-408-417-00	INDUCTOR	47UH	Y1-73	*1-564-521-11	PLUG, CONNECTOR 6P	
<TRANSISTOR>				*****			
Q2761	8-729-423-37	TRANSISTOR	2SC3311A-QRS	*1-638-779-11 Y BOARD			
Q2762	8-729-423-44	TRANSISTOR	2SA1309A-QRS	*****			
Q2763	8-729-208-39	TRANSISTOR	2SA1306A-Y	<CAPACITOR>			
Q2764	8-729-423-37	TRANSISTOR	2SC3311A-QRS	C900	1-124-927-11	ELECT	4.7MF 20% 50V
Q2765	8-729-208-72	TRANSISTOR	2SC3298B-Y	C901	1-126-101-11	ELECT	100MF 20% 16V
Q2766	8-729-423-37	TRANSISTOR	2SC3311A-QRS	C903	1-124-907-11	ELECT	10MF 20% 50V
Q2767	8-729-140-96	TRANSISTOR	2SD774-34	C904	1-124-927-11	ELECT	4.7MF 20% 50V
Q2768	8-729-423-37	TRANSISTOR	2SC3311A-QRS	C905	1-126-101-11	ELECT	100MF 20% 16V
<RESISTOR>				C906	1-124-907-11	ELECT	10MF 20% 50V
R2751	1-249-429-11	CARBON	10K 5% 1/4W	C907	1-126-101-11	ELECT	100MF 20% 16V
R2752	1-249-432-11	CARBON	18K 5% 1/4W	C908	1-126-101-11	ELECT	100MF 20% 16V
R2753	1-249-437-11	CARBON	47K 5% 1/4W	C909	1-136-165-00	FILM	0.1MF 5% 50V
R2761	1-249-397-11	CARBON	22 5% 1/4W F	C910	1-136-155-00	FILM	0.015MF 5% 50V
R2762	1-249-409-11	CARBON	220 5% 1/4W	C911	1-130-479-00	MYLAR	0.0047MF 5% 50V
R2763	1-249-420-11	CARBON	1.8K 5% 1/4W	C912	1-124-907-11	ELECT	10MF 20% 50V
R2764	1-247-736-11	CARBON	56 5% 1/2W F	C913	1-136-165-00	FILM	0.1MF 5% 50V
R2765	1-249-414-11	CARBON	560 5% 1/4W F	C914	1-130-479-00	MYLAR	0.0047MF 5% 50V
R2766	1-249-418-11	CARBON	1.2K 5% 1/4W	C915	1-136-155-00	FILM	0.015MF 5% 50V
R2768	1-249-420-11	CARBON	1.8K 5% 1/4W	C916	1-126-101-11	ELECT	100MF 20% 16V
				C921	1-136-165-00	FILM	0.1MF 5% 50V
				<DIODE>			

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Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q2455	8-729-423-37	TRANSISTOR 2SC3311A-QRS		C405	1-126-233-11	ELECT 22MF	20% 25V
Q2456	8-729-423-44	TRANSISTOR 2SA1309A-QRS		C407	1-124-903-11	ELECT 1MF	20% 50V
Q2457	8-729-119-78	TRANSISTOR 2SC2785-HFE		C408	1-124-903-11	ELECT 1MF	20% 50V
Q2458	8-729-423-44	TRANSISTOR 2SA1309A-QRS		C409	1-126-233-11	ELECT 22MF	20% 25V
<RESISTOR>				C410	1-124-907-11	ELECT 10MF	20% 50V
R2424	1-215-421-00	METAL 1K 1% 1/4W		C411	1-126-233-11	ELECT 22MF	20% 25V
R2425	1-215-409-00	METAL 330 1% 1/4W		C413	1-124-903-11	ELECT 1MF	20% 50V
R2426	1-215-409-00	METAL 330 1% 1/4W		C414	1-124-903-11	ELECT 1MF	20% 50V
R2427	1-215-421-00	METAL 1K 1% 1/4W		C415	1-126-233-11	ELECT 22MF	20% 25V
R2439	1-249-441-11	CARBON 100K 5% 1/4W		C418	1-124-478-11	ELECT 100MF	20% 25V
R2440	1-249-413-11	CARBON 470 5% 1/4W		C419	1-124-478-11	ELECT 100MF	20% 25V
R2441	1-249-435-11	CARBON 33K 5% 1/4W		C420	1-124-477-11	ELECT 47MF	20% 16V
R2442	1-249-441-11	CARBON 100K 5% 1/4W		C421	1-126-103-11	ELECT 470MF	20% 16V
R2443	1-249-413-11	CARBON 470 5% 1/4W		C422	1-126-103-11	ELECT 470MF	20% 16V
R2444	1-249-430-11	CARBON 12K 5% 1/4W		C423	1-101-004-00	CERAMIC 0.01MF	50V
R2445	1-249-430-11	CARBON 12K 5% 1/4W		C424	1-126-233-11	ELECT 22MF	20% 25V
R2446	1-249-441-11	CARBON 100K 5% 1/4W		C425	1-126-233-11	ELECT 22MF	20% 25V
R2447	1-249-439-11	CARBON 68K 5% 1/4W		C426	1-124-589-11	ELECT 47MF	20% 16V
R2451	1-249-441-11	CARBON 100K 5% 1/4W		C427	1-102-125-00	CERAMIC 0.0047MF	10% 50V
R2452	1-249-441-11	CARBON 100K 5% 1/4W		C428	1-126-233-11	ELECT 22MF	20% 25V
R2453	1-249-405-11	CARBON 100 5% 1/4W		C429	1-124-589-11	ELECT 47MF	20% 16V
R2454	1-215-437-00	METAL 4.7K 1% 1/4W		C430	1-126-233-11	ELECT 22MF	20% 25V
R2455	1-215-427-00	METAL 1.8K 1% 1/4W		C431	1-124-478-11	ELECT 100MF	20% 25V
R2456	1-249-441-11	CARBON 100K 5% 1/4W		C433	1-126-233-11	ELECT 22MF	20% 25V
R2457	1-249-441-11	CARBON 100K 5% 1/4W		C434	1-126-233-11	ELECT 22MF	20% 25V
R2458	1-249-405-11	CARBON 100 5% 1/4W		C435	1-124-903-11	ELECT 1MF	20% 50V
R2459	1-249-421-11	CARBON 2.2K 5% 1/4W		C436	1-124-903-11	ELECT 1MF	20% 50V
R2460	1-249-421-11	CARBON 2.2K 5% 1/4W		C437	1-126-233-11	ELECT 22MF	20% 25V
R2463	1-249-435-11	CARBON 33K 5% 1/4W		C438	1-124-598-11	ELECT 22MF	20% 25V
R2464	1-249-441-11	CARBON 100K 5% 1/4W		C439	1-126-233-11	ELECT 22MF	20% 25V
R2465	1-215-423-00	METAL 1.2K 1% 1/4W		C440	1-124-477-11	ELECT 47MF	20% 16V
R2466	1-215-417-00	METAL 680 1% 1/4W		C441	1-124-477-11	ELECT 47MF	20% 16V
R2468	1-215-387-00	METAL 39 1% 1/4W		C442	1-126-233-11	ELECT 22MF	20% 25V
R2469	1-215-387-00	METAL 39 1% 1/4W		C445	1-124-589-11	ELECT 47MF	20% 16V
R2470	1-249-389-91	CARBON 4.7 5% 1/4W		C462	1-124-589-11	ELECT 47MF	20% 16V
R2471	1-249-389-91	CARBON 4.7 5% 1/4W		C490	1-101-004-00	CERAMIC 0.01MF	50V
R2473	1-249-421-11	CARBON 2.2K 5% 1/4W		C491	1-124-477-11	ELECT 47MF	20% 16V
R2474	1-249-421-11	CARBON 2.2K 5% 1/4W		C492	1-126-233-11	ELECT 22MF	20% 25V
R2483	1-215-437-00	METAL 4.7K 1% 1/4W		C493	1-124-477-11	ELECT 47MF	20% 16V
R2484	1-215-427-00	METAL 1.8K 1% 1/4W		C494	1-102-106-00	CERAMIC 100PF	10% 50V
R2487	1-249-430-11	CARBON 12K 5% 1/4W		C495	1-164-070-11	CERAMIC 100PF	5% 50V
R2488	1-249-430-11	CARBON 12K 5% 1/4W		C1402	1-124-589-11	ELECT 47MF	20% 16V
R2489	1-215-423-00	METAL 1.2K 1% 1/4W		C1403	1-124-589-11	ELECT 47MF	20% 16V
R2491	1-215-387-00	METAL 39 1% 1/4W		<DIODE>			
R2492	1-215-417-00	METAL 680 1% 1/4W		D401	8-719-109-97	DIODE RD6.8ES-B2	
R2493	1-215-387-00	METAL 39 1% 1/4W		D402	8-719-110-13	DIODE RD9.1ES-B2	
R2494	1-249-389-91	CARBON 4.7 5% 1/4W		D403	8-719-109-97	DIODE RD6.8ES-B2	
R2495	1-249-389-91	CARBON 4.7 5% 1/4W		D408	8-719-109-97	DIODE RD6.8ES-B2	
R2497	1-249-421-11	CARBON 2.2K 5% 1/4W		D409	8-719-109-97	DIODE RD6.8ES-B2	
R2498	1-249-421-11	CARBON 2.2K 5% 1/4W		D410	8-719-110-13	DIODE RD9.1ES-B2	
*****				D411	8-719-109-97	DIODE RD6.8ES-B2	
A-1394-281-A U BOARD, COMPLETE				D415	8-719-110-17	DIODE RD10ES-B2	
*****				D418	8-719-911-19	DIODE 1SS119	
*4-341-752-01 EYELET (EY1-EY5)				D419	8-719-911-19	DIODE 1SS119	
<CAPACITOR>				D421	8-719-109-97	DIODE RD6.8ES-B2	
C401	1-126-233-11	ELECT 22MF	20% 25V	D422	8-719-109-97	DIODE RD6.8ES-B2	
C402	1-101-004-00	CERAMIC 0.01MF	50V	D423	8-719-109-97	DIODE RD6.8ES-B2	
C403	1-124-903-11	ELECT 1MF	20% 50V	D424	8-719-109-97	DIODE RD6.8ES-B2	
C404	1-124-903-11	ELECT 1MF	20% 50V	D425	8-719-109-97	DIODE RD6.8ES-B2	
				D426	8-719-109-97	DIODE RD6.8ES-B2	
				D427	8-719-109-97	DIODE RD6.8ES-B2	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D428	8-719-109-97	DIODE RD6.8ES-B2		R421	1-247-804-11	CARBON	75 5% 1/4W
D429	8-719-109-97	DIODE RD6.8ES-B2		R422	1-247-895-00	CARBON	470K 5% 1/4W
<IC>				R423	1-247-895-00	CARBON	470K 5% 1/4W
IC401	8-759-710-68	IC NJM2245S		R424	1-247-895-00	CARBON	470K 5% 1/4W
IC402	8-759-710-68	IC NJM2245S		R425	1-247-895-00	CARBON	470K 5% 1/4W
IC405	8-759-710-69	IC NJM2233BS		R426	1-249-424-11	CARBON	3.9K 5% 1/4W
IC444	8-752-053-17	IC CXA1114P		R427	1-247-895-00	CARBON	470K 5% 1/4W
IC1401	8-759-710-69	IC NJM2233BS		R428	1-249-424-11	CARBON	3.9K 5% 1/4W
<JACK>				R429	1-249-434-11	CARBON	27K 5% 1/4W
J401	1-565-931-11	TERMINAL BLOCK, S 3P		R432	1-249-405-11	CARBON	100 5% 1/4W
J402	1-565-840-11	PIN JACK BLOCK 6P		R433	1-249-413-11	CARBON	470 5% 1/4W
J403	1-565-931-11	TERMINAL BLOCK, S 3P		R434	1-249-409-11	CARBON	220 5% 1/4W
J404	1-565-838-11	JACK BLOCK, PIN 2P		R435	1-249-403-11	CARBON	68 5% 1/4W
<COIL>				R436	1-249-425-11	CARBON	4.7K 5% 1/4W
L401	1-408-412-00	INDUCTOR 18UH		R437	1-247-885-00	CARBON	180K 5% 1/4W
L404	1-410-663-31	INDUCTOR 10UH		R438	1-249-405-11	CARBON	100 5% 1/4W
<TRANSISTOR>				R439	1-249-413-11	CARBON	470 5% 1/4W
Q401	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R440	1-249-417-11	CARBON	1K 5% 1/4W
Q402	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R441	1-249-409-11	CARBON	220 5% 1/4W
Q403	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R447	1-249-409-11	CARBON	220 5% 1/4W
Q404	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R448	1-249-409-11	CARBON	220 5% 1/4W
Q405	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R449	1-249-413-11	CARBON	470 5% 1/4W
Q406	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R450	1-249-409-11	CARBON	220 5% 1/4W
Q407	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R451	1-249-421-11	CARBON	2.2K 5% 1/4W
Q408	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R452	1-249-433-11	CARBON	22K 5% 1/4W
Q409	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R457	1-249-405-11	CARBON	100 5% 1/4W
Q410	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R458	1-249-405-11	CARBON	100 5% 1/4W
Q411	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R459	1-249-417-11	CARBON	1K 5% 1/4W
Q412	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R460	1-249-405-11	CARBON	100 5% 1/4W
Q413	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R461	1-249-417-11	CARBON	1K 5% 1/4W
Q414	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R462	1-249-417-11	CARBON	1K 5% 1/4W
Q415	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R463	1-249-405-11	CARBON	100 5% 1/4W
Q416	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R465	1-249-417-11	CARBON	1K 5% 1/4W
Q491	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R466	1-249-405-11	CARBON	100 5% 1/4W
Q492	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R467	1-249-405-11	CARBON	100 5% 1/4W
Q1401	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R468	1-249-433-11	CARBON	22K 5% 1/4W
<RESISTOR>				R469	1-249-433-11	CARBON	22K 5% 1/4W
R401	1-247-804-11	CARBON	75 5% 1/4W	R470	1-249-403-11	CARBON	68 5% 1/4W
R402	1-247-804-11	CARBON	75 5% 1/4W	R471	1-249-403-11	CARBON	68 5% 1/4W
R403	1-249-434-11	CARBON	27K 5% 1/4W	R472	1-249-403-11	CARBON	68 5% 1/4W
R404	1-247-885-00	CARBON	180K 5% 1/4W	R474	1-249-405-11	CARBON	100 5% 1/4W
R405	1-247-885-00	CARBON	180K 5% 1/4W	R475	1-249-417-11	CARBON	1K 5% 1/4W
R406	1-249-434-11	CARBON	27K 5% 1/4W	R476	1-249-433-11	CARBON	22K 5% 1/4W
R407	1-247-804-11	CARBON	75 5% 1/4W	R479	1-249-433-11	CARBON	22K 5% 1/4W
R409	1-249-434-11	CARBON	27K 5% 1/4W	R480	1-249-433-11	CARBON	22K 5% 1/4W
R410	1-247-885-00	CARBON	180K 5% 1/4W	R481	1-249-433-11	CARBON	22K 5% 1/4W
R411	1-247-804-11	CARBON	75 5% 1/4W	R483	1-249-417-11	CARBON	1K 5% 1/4W
R413	1-249-434-11	CARBON	27K 5% 1/4W	R484	1-215-455-00	METAL	27K 1% 1/4W
R414	1-247-885-00	CARBON	180K 5% 1/4W	R485	1-215-475-00	METAL	180K 1% 1/4W
R415	1-249-434-11	CARBON	27K 5% 1/4W	R486	1-215-455-00	METAL	27K 1% 1/4W
R416	1-247-885-00	CARBON	180K 5% 1/4W	R487	1-215-475-00	METAL	180K 1% 1/4W
R417	1-247-895-00	CARBON	470K 5% 1/4W	R488	1-249-433-11	CARBON	22K 5% 1/4W
R418	1-249-417-11	CARBON	1K 5% 1/4W	R489	1-249-433-11	CARBON	22K 5% 1/4W
R419	1-247-895-00	CARBON	470K 5% 1/4W	R490	1-249-417-11	CARBON	1K 5% 1/4W
R420	1-249-417-11	CARBON	1K 5% 1/4W	R491	1-249-417-11	CARBON	1K 5% 1/4W
				R492	1-249-417-11	CARBON	1K 5% 1/4W
				R493	1-249-431-11	CARBON	15K 5% 1/4W
				R494	1-249-429-11	CARBON	10K 5% 1/4W
				R495	1-249-417-11	CARBON	1K 5% 1/4W
				R496	1-249-425-11	CARBON	4.7K 5% 1/4W
				R497	1-249-417-11	CARBON	1K 5% 1/4W
				R498	1-249-417-11	CARBON	1K 5% 1/4W
				R1401	1-249-405-11	CARBON	100 5% 1/4W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1402	1-249-405-11	CARBON	100 5% 1/4W	C7074	1-124-463-00	ELECT	0.1MF 20% 50V
R1403	1-249-417-11	CARBON	1K 5% 1/4W	C7075	1-102-978-00	CERAMIC	220PF 5% 50V
R1420	1-249-413-11	CARBON	470 5% 1/4W	C7201	1-124-910-11	ELECT	47MF 20% 50V
R1421	1-249-413-11	CARBON	470 5% 1/4W	C7202	1-102-129-00	CERAMIC	0.01MF 10% 50V
R1422	1-249-405-11	CARBON	100 5% 1/4W	C7203	1-102-978-00	CERAMIC	220PF 5% 50V
R1423	1-249-441-11	CARBON	100K 5% 1/4W	C7204	1-102-978-00	CERAMIC	220PF 5% 50V
R1424	1-249-429-11	CARBON	10K 5% 1/4W	<NETWORK>			
R1425	1-249-429-11	CARBON	10K 5% 1/4W	CP7201	1-236-479-11	NETWORK, C	
<SWITCH>				CP7203	1-236-479-11	NETWORK, C	
S401	1-571-729-11	SWITCH, SLIDE		<DIODE>			
S402	1-554-303-21	SWITCH, KEY BOARD		D7001	8-719-911-19	DIODE 1SS119	
<CONNECTOR>				D7002	8-719-911-19	DIODE 1SS119	
U3	*1-564-519-11	PLUG, CONNECTOR 4P		D7003	8-719-911-19	DIODE 1SS119	
U4	1-564-523-11	PLUG, CONNECTOR 8P		D7004	8-719-911-19	DIODE 1SS119	
U5	*1-568-377-11	CONNECTOR, HINGE (TAB) 7P		D7005	8-719-911-19	DIODE 1SS119	
U29	*1-566-941-11	CONNECTOR, HINGE (TAB) 30P		D7006	8-719-911-19	DIODE 1SS119	
*****				D7008	8-719-911-19	DIODE 1SS119	
*A-1394-303-A T BOARD, COMPLETE				D7009	8-719-911-19	DIODE 1SS119	
*****				D7010	8-719-911-19	DIODE 1SS119	
<CAPACITOR>				D7011	8-719-911-19	DIODE 1SS119	
C7001	1-130-471-00	MYLAR	0.001MF 5% 50V	D7012	8-719-911-19	DIODE 1SS119	
C7002	1-130-471-00	MYLAR	0.001MF 5% 50V	D7013	8-719-911-19	DIODE 1SS119	
C7003	1-136-161-00	FILM	0.047MF 5% 50V	D7014	8-719-911-19	DIODE 1SS119	
C7004	1-124-907-11	ELECT	10MF 20% 50V	D7015	8-719-911-19	DIODE 1SS119	
C7005	1-102-965-00	CERAMIC	39PF 5% 50V	D7016	8-719-911-19	DIODE 1SS119	
C7006	1-130-471-00	MYLAR	0.001MF 5% 50V	D7017	8-719-110-06	DIODE RD8.2ES-B1	
C7007	1-136-153-00	FILM	0.01MF 5% 50V	D7018	8-719-109-93	DIODE RD6.2ES-B2	
C7009	1-124-903-11	ELECT	1MF 20% 50V	D7019	8-719-109-93	DIODE RD6.2ES-B2	
C7010	1-130-477-00	MYLAR	0.0033MF 5% 50V	D7020	8-719-109-93	DIODE RD6.2ES-B2	
C7012	1-102-965-00	CERAMIC	39PF 5% 50V	D7021	8-719-911-19	DIODE 1SS119	
C7013	1-102-978-00	CERAMIC	220PF 5% 50V	<IC>			
C7014	1-102-824-00	CERAMIC	470PF 5% 50V	IC7001	8-752-830-22	IC CXP5068H-057S	
C7015	1-124-463-00	ELECT	0.1MF 20% 50V	IC7002	8-759-403-44	IC MN1280-S	
C7016	1-124-657-00	ELECT	10MF 20% 50V	IC7201	8-759-929-62	IC LM7812CT	
C7017	1-102-129-00	CERAMIC	0.01MF 10% 50V	<COIL>			
C7018	1-124-477-11	ELECT	47MF 20% 16V	L7001	1-410-671-31	INDUCTOR 47UH	
C7019	1-124-477-11	ELECT	47MF 20% 16V	L7002	1-410-068-11	INDUCTOR 5.6MMH	
C7021	1-124-477-11	ELECT	47MF 20% 16V	L7003	1-410-663-31	INDUCTOR 10UH	
C7022	1-130-477-00	MYLAR	0.0033MF 5% 50V	L7004	1-410-478-11	INDUCTOR 47UH	
C7024	1-101-005-00	CERAMIC	0.022MF 50V	<TRANSISTOR>			
C7027	1-124-477-11	ELECT	47MF 20% 16V	Q7001	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C7028	1-130-479-00	MYLAR	0.0047MF 5% 50V	Q7002	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C7029	1-124-902-00	ELECT	0.47MF 20% 50V	Q7003	8-729-600-12	TRANSISTOR 2SK108-C	
C7030	1-130-471-00	MYLAR	0.001MF 5% 50V	Q7004	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C7031	1-101-888-00	CERAMIC	68PF 5% 50V	Q7005	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C7032	1-136-153-00	FILM	0.01MF 5% 50V	Q7006	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C7033	1-102-074-00	CERAMIC	0.001MF 10% 50V	Q7007	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C7034	1-102-113-00	CERAMIC	390PF 10% 50V	Q7008	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C7035	1-136-157-00	FILM	0.022MF 5% 50V	Q7009	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C7036	1-124-903-11	ELECT	1MF 20% 50V	Q7010	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
C7037	1-124-907-11	ELECT	10MF 20% 50V	Q7011	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C7039	1-126-157-11	ELECT	10MF 20% 16V	Q7012	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C7057	1-102-978-00	CERAMIC	220PF 5% 50V	Q7013	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C7070	1-124-925-11	ELECT	2.2MF 20% 50V	Q7014	8-729-423-44	TRANSISTOR 2SA1309A-QRS	
C7071	1-102-978-00	CERAMIC	220PF 5% 50V	Q7015	8-729-423-37	TRANSISTOR 2SC3311A-QRS	
C7072	1-126-101-11	ELECT	100MF 20% 16V				
C7073	1-101-004-00	CERAMIC	0.01MF 50V				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q7016	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R7046	1-249-416-11	CARBON 820 5%	1/4W
Q7017	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R7047	1-249-429-11	CARBON 10K 5%	1/4W
Q7018	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R7048	1-249-429-11	CARBON 10K 5%	1/4W
Q7019	8-729-423-37	TRANSISTOR 2SC3311A-QRS					
Q7020	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R7063	1-249-405-11	CARBON 100 5%	1/4W
				R7064	1-249-405-11	CARBON 100 5%	1/4W
Q7021	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R7066	1-249-405-11	CARBON 100 5%	1/4W
Q7026	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R7068	1-249-438-11	CARBON 56K 5%	1/4W
Q7027	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R7069	1-249-433-11	CARBON 22K 5%	1/4W
Q7028	8-729-423-37	TRANSISTOR 2SC3311A-QRS					
Q7029	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R7079	1-249-413-11	CARBON 470 5%	1/4W
				R7080	1-249-417-11	CARBON 1K 5%	1/4W
Q7030	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R7081	1-249-421-11	CARBON 2.2K 5%	1/4W
Q7031	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R7082	1-249-417-11	CARBON 1K 5%	1/4W
Q7032	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R7083	1-249-419-11	CARBON 1.5K 5%	1/4W
Q7033	8-729-423-37	TRANSISTOR 2SC3311A-QRS					
Q7035	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R7084	1-249-418-11	CARBON 1.2K 5%	1/4W
				R7085	1-249-421-11	CARBON 2.2K 5%	1/4W
Q7036	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R7086	1-249-429-11	CARBON 10K 5%	1/4W
Q7037	8-729-423-37	TRANSISTOR 2SC3311A-QRS		R7087	1-249-429-11	CARBON 10K 5%	1/4W
Q7038	8-729-423-44	TRANSISTOR 2SA1309A-QRS		R7088	1-249-405-11	CARBON 100 5%	1/4W
Q7301	8-729-423-37	TRANSISTOR 2SC3311A-QRS					
<RESISTOR>				R7089	1-249-427-11	CARBON 6.8K 5%	1/4W
R7001	1-249-417-11	CARBON 1K 5%	1/4W	R7090	1-249-427-11	CARBON 6.8K 5%	1/4W
R7002	1-249-423-11	CARBON 3.3K 5%	1/4W	R7091	1-249-433-11	CARBON 22K 5%	1/4W
R7003	1-249-419-11	CARBON 1.5K 5%	1/4W	R7092	1-249-421-11	CARBON 2.2K 5%	1/4W
R7004	1-249-429-11	CARBON 10K 5%	1/4W	R7093	1-247-889-00	CARBON 270K 5%	1/4W
R7005	1-249-407-11	CARBON 150 5%	1/4W				
				R7094	1-249-427-11	CARBON 6.8K 5%	1/4W
R7006	1-249-429-11	CARBON 10K 5%	1/4W	R7095	1-249-412-11	CARBON 390 5%	1/4W
R7007	1-249-429-11	CARBON 10K 5%	1/4W	R7096	1-249-426-11	CARBON 5.6K 5%	1/4W
R7008	1-249-421-11	CARBON 2.2K 5%	1/4W	R7097	1-249-423-11	CARBON 3.3K 5%	1/4W
R7009	1-249-421-11	CARBON 2.2K 5%	1/4W	R7098	1-249-433-11	CARBON 22K 5%	1/4W
R7010	1-249-430-11	CARBON 12K 5%	1/4W				
				R7099	1-249-437-11	CARBON 47K 5%	1/4W
R7011	1-247-903-00	CARBON 1M 5%	1/4W	R7104	1-249-441-11	CARBON 100K 5%	1/4W
R7012	1-249-429-11	CARBON 10K 5%	1/4W	R7105	1-249-429-11	CARBON 10K 5%	1/4W
R7013	1-249-424-11	CARBON 3.9K 5%	1/4W	R7106	1-249-434-11	CARBON 27K 5%	1/4W
R7014	1-249-423-11	CARBON 3.3K 5%	1/4W	R7107	1-249-412-11	CARBON 390 5%	1/4W
R7015	1-249-421-11	CARBON 2.2K 5%	1/4W				
				R7108	1-249-423-11	CARBON 3.3K 5%	1/4W
R7016	1-249-417-11	CARBON 1K 5%	1/4W	R7109	1-249-413-11	CARBON 470 5%	1/4W
R7017	1-249-430-11	CARBON 12K 5%	1/4W	R7110	1-249-413-11	CARBON 470 5%	1/4W
R7018	1-249-429-11	CARBON 10K 5%	1/4W	R7111	1-249-417-11	CARBON 1K 5%	1/4W
R7019	1-249-441-11	CARBON 100K 5%	1/4W	R7112	1-249-436-11	CARBON 39K 5%	1/4W
R7020	1-249-425-11	CARBON 4.7K 5%	1/4W				
				R7113	1-249-433-11	CARBON 22K 5%	1/4W
R7021	1-247-903-00	CARBON 1M 5%	1/4W	R7114	1-249-432-11	CARBON 18K 5%	1/4W
R7022	1-249-409-11	CARBON 220 5%	1/4W	R7115	1-249-428-11	CARBON 8.2K 5%	1/4W
R7023	1-249-429-11	CARBON 10K 5%	1/4W	R7116	1-249-425-11	CARBON 4.7K 5%	1/4W
R7024	1-249-416-11	CARBON 820 5%	1/4W	R7117	1-249-421-11	CARBON 2.2K 5%	1/4W
R7025	1-249-425-11	CARBON 4.7K 5%	1/4W				
				R7118	1-249-412-11	CARBON 390 5%	1/4W
R7026	1-249-429-11	CARBON 10K 5%	1/4W	R7119	1-249-405-11	CARBON 100 5%	1/4W
R7027	1-249-414-11	CARBON 560 5%	1/4W	R7120	1-249-405-11	CARBON 100 5%	1/4W
R7028	1-249-429-11	CARBON 10K 5%	1/4W	R7121	1-249-405-11	CARBON 100 5%	1/4W
R7029	1-249-425-11	CARBON 4.7K 5%	1/4W	R7122	1-249-405-11	CARBON 100 5%	1/4W
R7030	1-249-429-11	CARBON 10K 5%	1/4W				
				R7124	1-249-429-11	CARBON 10K 5%	1/4W
R7031	1-249-421-11	CARBON 2.2K 5%	1/4W	R7125	1-249-422-11	CARBON 2.7K 5%	1/4W
R7032	1-249-417-11	CARBON 1K 5%	1/4W	R7126	1-247-895-00	CARBON 470K 5%	1/4W
R7033	1-249-437-11	CARBON 47K 5%	1/4W	R7127	1-247-903-00	CARBON 1M 5%	1/4W
R7034	1-249-437-11	CARBON 47K 5%	1/4W	R7128	1-249-429-11	CARBON 10K 5%	1/4W
R7035	1-249-437-11	CARBON 47K 5%	1/4W				
				R7129	1-249-421-11	CARBON 2.2K 5%	1/4W
R7036	1-249-429-11	CARBON 10K 5%	1/4W	R7130	1-249-417-11	CARBON 1K 5%	1/4W
R7038	1-249-417-11	CARBON 1K 5%	1/4W	R7131	1-249-421-11	CARBON 2.2K 5%	1/4W
R7040	1-249-423-11	CARBON 3.3K 5%	1/4W	R7132	1-249-429-11	CARBON 10K 5%	1/4W
R7041	1-249-429-11	CARBON 10K 5%	1/4W	R7133	1-249-431-11	CARBON 15K 5%	1/4W
R7042	1-249-425-11	CARBON 4.7K 5%	1/4W				
				R7201	1-216-379-11	METAL OXIDE 6.8 5%	2W F
R7043	1-249-432-11	CARBON 18K 5%	1/4W	R7301	1-249-437-11	CARBON 47K 5%	1/4W
R7044	1-249-426-11	CARBON 5.6K 5%	1/4W	R7302	1-249-441-11	CARBON 100K 5%	1/4W
				R7304	1-249-437-11	CARBON 47K 5%	1/4W
				R7305	1-249-440-11	CARBON 82K 5%	1/4W

T FO AMPLIFIER

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<CONNECTOR>				<DIODE>			
T10	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)		D1	8-719-802-30	DIODE 1SS176	
T11	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)		D2	9-900-619-01	ZENER DIODE RD15JS(B2)-T	
T41	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		D3	9-900-618-01	DIODE ERA15-02VH-T	
T42	*1-564-505-11	PLUG, CONNECTOR 2P		D4	9-900-617-01	BRIDGE DIODE S4VB20F	
T43	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		D5	9-900-619-01	ZENER DIODE RD15JS(B2)-T	
T51	*1-564-506-11	PLUG, CONNECTOR 3P		D6	9-900-619-01	ZENER DIODE RD15JS(B2)-T	
T52	*1-564-505-11	PLUG, CONNECTOR 2P		D7	9-900-618-01	DIODE ERA15-02VH-T	
T53	*1-564-508-11	PLUG, CONNECTOR 5P		D8	9-900-618-01	DIODE ERA15-02VH-T	
T63	*1-564-507-11	PLUG, CONNECTOR 4P		<IC>			
<CRYSTAL>				IC1	8-759-634-50	IC M5218AL	
X7001	1-577-071-11	VIBRATOR, CERAMIC		IC2	8-759-634-50	IC M5218AL	
*****				IC3	8-759-634-50	IC M5218AL	
*1-629-628-11 FO BOARD				IC4	9-900-285-01	IC (POWER AMP) STK4030-2	
*****				<COIL>			
9-900-614-01 AMPLIFIER BOARD (INCLUDING FUSE BOARD)				L1	9-900-287-01	COIL (ATH-133-A)	
*****				<CONNECTOR>			
<CAPACITOR>				PL1	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P	
C1	1-102-824-00	CERAMIC	470PF 5% 50V	PL5	*1-560-290-00	PLUG, CONNECTOR (2.5MM) 2P	
C2	1-102-824-00	CERAMIC	470PF 5% 50V	<TRANSISTOR>			
C3	1-102-824-00	CERAMIC	470PF 5% 50V	Q1	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C4	1-102-824-00	CERAMIC	470PF 5% 50V	Q2	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C5	1-124-925-11	ELECT	2.2MF 20% 50V	Q3	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C6	1-124-925-11	ELECT	2.2MF 20% 50V	Q4	9-900-615-01	TRANSISTOR 2SC3243(DE)-T	
C7	1-124-925-11	ELECT	2.2MF 20% 50V	Q5	9-900-615-01	TRANSISTOR 2SC3243(DE)-T	
C8	1-130-485-00	MYLAR	0.015MF 5% 50V	Q6	9-900-616-01	TRANSISTOR 2SA1283(DE)-T	
C9	1-136-156-00	MYLAR	0.018MF 5% 50V	<RESISTOR>			
C10	1-130-480-00	MYLAR	0.0056MF 5% 50V	R1	1-249-413-11	CARBON 470 5% 1/4W	
C11	1-130-490-11	MYLAR	0.039MF 5% 50V	R2	1-249-413-11	CARBON 470 5% 1/4W	
C12	1-102-125-00	CERAMIC	0.0047MF 10% 50V	R3	1-249-441-11	CARBON 100K 5% 1/4W	
C13	1-124-925-11	ELECT	2.2MF 20% 50V	R4	1-249-441-11	CARBON 100K 5% 1/4W	
C14	1-102-973-00	CERAMIC	100PF 5% 50V	R5	1-249-405-11	CARBON 100 5% 1/4W	
C15	1-102-973-00	CERAMIC	100PF 5% 50V	R6	1-249-405-11	CARBON 100 5% 1/4W	
C16	1-124-907-11	ELECT	10MF 20% 50V	R7	1-249-441-11	CARBON 100K 5% 1/4W	
C17	1-102-074-00	CERAMIC	0.001MF 10% 50V	R8	1-249-441-11	CARBON 100K 5% 1/4W	
C18	1-124-903-11	ELECT	1MF 20% 50V	R9	1-247-836-11	CARBON 1.6K 5% 1/4W	
C19	1-102-973-00	CERAMIC	100PF 5% 50V	R10	1-247-836-11	CARBON 1.6K 5% 1/4W	
C20	1-124-122-11	ELECT	100MF 20% 50V	R11	1-249-437-11	CARBON 47K 5% 1/4W	
C21	1-124-122-11	ELECT	100MF 20% 50V	R12	1-249-437-11	CARBON 47K 5% 1/4W	
C22	1-102-947-00	CERAMIC	10PF 0.50PF 50V	R13	1-247-850-11	CARBON 6.2K 5% 1/4W	
C23	1-124-122-11	ELECT	100MF 20% 50V	R14	1-249-441-11	CARBON 100K 5% 1/4W	
C25	1-124-122-11	ELECT	100MF 20% 50V	R15	1-249-441-11	CARBON 100K 5% 1/4W	
C26	1-130-495-00	MYLAR	0.1MF 5% 50V	R16	1-249-441-11	CARBON 100K 5% 1/4W	
C27	1-124-122-11	ELECT	100MF 20% 35V	R17	1-249-441-11	CARBON 100K 5% 1/4W	
C29	1-124-472-11	ELECT	470MF 20% 6.3V	R18	1-249-441-11	CARBON 100K 5% 1/4W	
C30	1-124-472-11	ELECT	470MF 20% 6.3V	R20	1-249-421-11	CARBON 2.2K 5% 1/4W	
C31	1-124-907-11	ELECT	10MF 20% 50V	R21	1-249-438-11	CARBON 56K 5% 1/4W	
C32	9-900-284-01	ELECT	4700MF 42V	R22	1-249-413-11	CARBON 470 5% 1/4W	
C33	9-900-284-01	ELECT	4700MF 42V	R23	1-249-420-11	CARBON 1.8K 5% 1/4W	
C34	1-124-478-11	ELECT	100MF 20% 25V	R24	1-249-429-11	CARBON 10K 5% 1/4W	
C35	1-124-478-11	ELECT	100MF 20% 25V	R25	9-900-291-01	FUSIBLE 100	F
C36	1-124-478-11	ELECT	100MF 20% 25V	R26	1-249-438-11	CARBON 56K 5% 1/4W	
C37	1-124-478-11	ELECT	100MF 20% 25V				
C39	9-900-620-01	CAPACITOR	0.01MF				

Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

AMPLIFIER FUSE

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R27	9-900-291-01	FUSIBLE 100	1/4W	*1-557-056-31	CABLE, P-P		
R28	9-900-288-01	RESISTOR 10	1/2W	8-741-681-01	IC SBX1681-01		
R29	9-900-288-01	RESISTOR 10	1/2W	9-900-277-01	SPEAKER (MAIN) 8.7CM		
R30	1-249-429-11	CARBON 10K 5%	1/4W	9-900-278-01	SPEAKER (WOOFER) 12CM		
R31	1-247-852-11	CARBON 7.5K 5%	1/4W				
R32	1-247-426-11	CARBON 5.6K 5%	1/4W				
R33	1-249-441-11	CARBON 100K 5%	1/4W				
R34	9-900-291-01	FUSIBLE 100	1/4W				
R35	9-900-290-01	FUSIBLE 4.7	1/4W				
R36	9-900-290-01	FUSIBLE 4.7	1/4W				
R37	9-900-289-01	RESISTOR 2.7K	1/2W				
R38	9-900-289-01	RESISTOR 2.7K	1/2W				
R39	9-900-290-01	FUSIBLE 4.7	1/4W				
<RELAY>							
<TRANSFORMER>							

FUSE BOARD							

	*1-533-189-11	HOLDER, FUSE					
<CAPACITOR>							
C41	9-900-621-01	CAPACITOR 0.01MF					
C44	9-900-621-01	CAPACITOR 0.01MF					
<DIODE>							
D9	8-719-200-02	DIODE 10E2					
<FUSE>							
<CONNECTOR>							
PL2	1-506-348-99	PIN, CONNECTOR 3P					
<RELAY>							

MISCELLANEOUS							

	1-452-032-00	MAGNET, DISK: 10MM ϕ					
	1-452-094-00	MAGNET, ROTABLE DISK: 15MM ϕ					
	1-544-546-11	SPEAKER BOX (8.7CM)					
	1-544-547-11	SPEAKER BOX (12CM)					
	1-550-689-11	SWIVEL, AUTO					
	*1-556-945-21	CABLE, P-P					

ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
X-4029-701-1	COVER ASSY. TERMINAL	
1-465-766-11	REMOTE COMMANDER (RM-Y108)	
1-417-182-11	CONVERTER (EAC-25) (CND ONLY)	
1-562-443-11	CONNECTOR, ANTENNA (USA ONLY)	
3-752-990-21	MANUAL, INSTRUCTION	
3-752-990-31	MANUAL, INSTRUCTION (CND ONLY)	
*4-030-895-01	JOINT	
*4-032-224-01	CUSHION (UPPER) (ASSY)	
*4-032-225-01	CUSHION (LOWER) (ASSY)	
*4-032-226-01	TRAY	
*4-032-227-01	INDIVIDUAL CARTON	
*4-032-805-01	CUSHION	
*4-033-133-01	SPACER	
*4-386-906-01	SHEET, PROTECTION	
*4-395-035-01	BAG, PROTECTION	
4-843-806-00	STRIKE	
7-685-648-79	SCREW +BVTP 3X12 IT-3	

ACCESSORY

RM-Y108

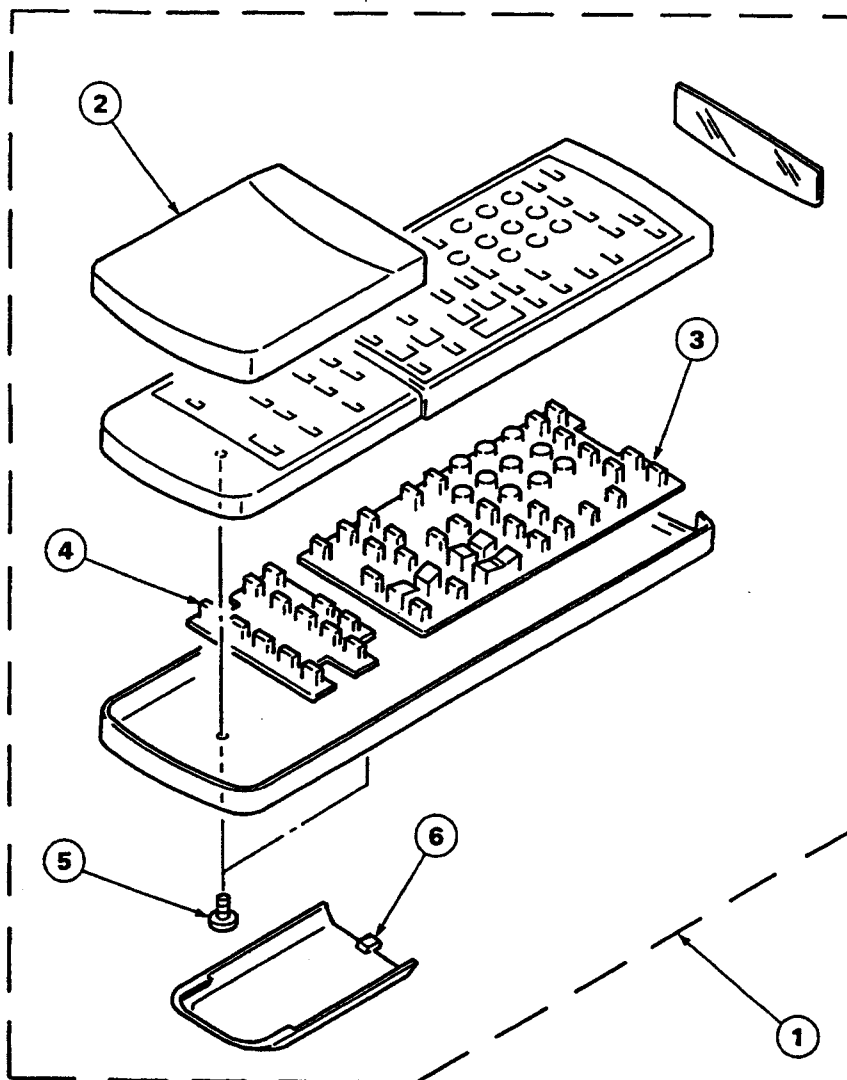
SPECIFICATIONS

Remote control system	Infrared control
Power requirements	3 Vdc
Dimensions	2 batteries IEC designation R 6 (size AA) Approx. 56(w) × 31.5(h) × 225(d) mm
Weight	Apprpx. 210 g including batteries
Accessories supplied	IEC designation R 6 battery (2)

Design and specifications subject to change without notice.

REMOTE COMMANDER

EXPLODED VIEW



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	1-465-766-11	COMMANDER, REMOTE (RM-Y108)	2-6	4	9-998-908-01	SWITCH RUBBER B	
2	9-998-909-01	COVER		5	9-996-295-01	SCREW-TAPPING M2X6 (B)	
3	9-998-907-11	SWITCH RUBBER A		6	9-998-214-01	COVER, BATTERY	